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- (54) Substituted carbazoles, process for their preparation and their use as sPLA2 inhibitiors
- (57) A class of novel tricyclics is disclosed together with the use of such compounds for inhibiting sPLA₂ me-

diated release of fatty acids for treatment of conditions such as septic shock

Description

[0001] This invention relates to novel substituted tricyclic organic compounds useful for inhibiting sPLA₂ mediated release of fatty acids for conditions such as septic shock.

[0002] The structure and physical properties of human non-pancreatic secretory phospholipase A₂ (hereinafter called. "sPLA₂") has been thoroughly described in two Articles, namely. "Cloning and Recombinant Expression of Phospholipase A₂ Present in Rheumatoid Arthritic Synovial Fluid" by Seilhamer, Jeffrey J. Pruzanski, Waldemar, Vadas Peter: Plant, Shelley: Miller. Judy A.: Kloss. Jean. and Johnson, Lorin K: <u>The Journal of Biological Chemistry</u>. Vol 264. No. 10, Issue of April 5 pp. 5335-5338, 1989 and "Structure and Properties of a Human Non-pancreatic Phospholipase A₂" by Kramer Ruth M: Hession. Catherine, Johansen, Berit, Hayes Gretchen McGray, Paula, Chow, E. Pingchang, Tizard. Richard: and Pepinsky, R. Blake: <u>The Journal of Biological Chemistry</u>, Vol. 264, No. 10, Issue of April 5, pp. 5768-5775, 1989, the disclosures of which are incorporated herein by reference.

[0003] It is believed that sPLA₂ is a rate limiting enzyme in the arachidonic acid cascade which hydrolyzes membrane phospholipids. Thus, it is important to develop compounds which inhibit sPLA₂ mediated release of fatty acids (e.g. arachidonic acid). Such compounds would be of value in general treatment of conditions induced and/or maintained by overproduction of sPLA₂ such as septic shock, adult respiratory distress syndrome, pancreatitis, trauma-induced shock, bronchial asthma, allergic rhinitis, rheumatoid arthritis, etc.

[0004] It is desirable to develop new compounds and treatments for sPLA2 induced diseases

[0005] Alexander, et al., United States Patent Nos. 3.939,177 and 3,979,391 disclose 1.2,3,4-tetrahydrocarbazoles useful as antibacterial agents

[0006] This invention provides tricyclic compounds as depicted in the general formula (I) below:

$$\begin{array}{c|c}
R^{2^{1}} & COR^{1} \\
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 & & & & \\$$

wherein;

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Z is cyclohexenyl, or phenyl, R^{20} is selected from groups (a), (b) and (c) where

(a) is-(C5-C20)alkyl,-(C5-C20)alkenyl,-(C5-C20)alkynyl, carbocyclic radicals, or heterocyclic radicals, or

(b) is a member of (a) substituted with one or more independently selected non-interfering substituents, or

(c) is the group -(L)-R⁸⁰: where, (L)-is a divalent linking group of 1 to 12 atoms selected from carbon hydrogen, oxygen, nitrogen, and sulfur: wherein the combination of atoms in -(L)- are selected from the group consisting of (i) carbon and hydrogen only, (ii) one sulfur only, (iii) one oxygen only. (iv) one or two nitrogen and hydrogen only, (v) carbon, hydrogen, and one sulfur only, and (vi) an carbon, hydrogen, and oxygen only: and where R⁸⁰ is a group selected from (a) or (b):

H²¹ is a non-interfering substituent where f is 1-3. H¹ is -NHNH₂,-NH₂, or -CONH₂.

H2 is selected from the group consisting of -OH, and -O(CH2)1R5 where

 R^{5} is H, -CN, -NH₂, -CONH₂, -CONH₃R¹⁰ -NHSO₂R¹⁵:-CONHSO₂R¹⁵, where R^{15} is -(C₁-C₆)alkyl or -CF₃: phenyl or phenyl substitut d with -CO₂H or -CO₂(C₁-C₄)alkyl and -(L_a)-(acidic group), wherein -(L_a)- is an acid linker having an acid linker length of 1 to 7 and t is 1-5:

R3' is sill cted from non-interfiring substituent, carbocyclic radicals, carbocyclic radicals substituted with non-interfering substituents heterocyclic radicals, and heterocyclic radicals substituted with non-interfering substituents.

or a pharmaceutically acceptable racemate, solvate, tautomer, optical isomer, prodrug derivative or salt, thereof

[0007] Those substituted tricyclics are effective in inhibiting human sPLA₂ mediated release of fatty acids.

[0008] This invention is also a pharmaceutical formulation comprising a compound of formula Lin association with one or more pharmaceutically acceptable diluents, carners and excipients.

[0009] This invention is also a method of inhibiting sPLA₂ comprising administering to a mammal in need of such treatment a therapeutically effective amount of a compound of formula I

[0010] According to a further aspect of the present invention, there is provided a method of selectively inhibiting sPLA₂ in a mammal in need of such treatment comprising administering to said mammal a therapeutically effective amount of a compound of formula I

[0011] This invention, further provides a compound of formula I for use as a medicament in the treatment of inflammatory diseases such as, septic shock, adult respiratory distress syndrome pancreatitis, trauma-induced shock, bronchial asthma atlergic rhinitis, rheumatoid arthritis, cystic fibrosis stroke, acute bronchitis, chronic bronchitis, acute bronchiolitis chronic bronchiolitis, osteoarthritis, gout, spondylarthropathris, ankylosing spondylitis, Reiter's syndrome. psoriatic arthropathy, enterapathric spondylitis. Juvenile arthropathy or juvenile ankylosing spondylitis. Reactive arthropathy, infectious or post-infectious arthritis, gonoccocal arthritis, tuberculous arthritis, viral arthritis, fungal arthritis. syphilitic arthritis. Lyme disease, arthritis associated with "vasculitic syndromes" polyarteritis nodosa, hypersensitivity vasculitis. Luegenec's granulomatosis, polymyalgin rheumatica, joint cell arteritis, calcium crystal deposition arthropathris, pseudo gout, non-articular rheumatism, bursitis, tenosynomitis, epicondylitis (tennis elbow), carpal tunnel syndrome, repetitive use injury (typing), miscellaneous forms of arthritis, neuropathic joint disease (charco and joint), hemarthrosis (hemarthrosic), Henoch-Schonlein Purpura, hypertrophic osteoarthropathy, multicentric reticulohisticcytosis, arthritis associated with certain diseases, surcoilosis, hemochromatosis, sickle cell disease and other hemoglobinopathries, hyperlipoproteineimia, hypogammaglobulinemia, hyperparathyroidism, acromegaly, familial Mediterranean fever. Behalt's Disease, systemic lupus erythrematosis, or relapsing polychondritis and related diseases which comprises administering to a mammal in need of such treatment a therapeutically effective amount of the compound of formula I in an amount sufficient to inhibit sPLA, mediated release of fatty acid and to thereby inhibit or prevent the arachidonic acid cascade and its deleterious products.

[0012] This invention provides, in addition, a process for preparing compounds of formula II

$$\begin{array}{c|c}
R^2 & COR^1 \\
\hline
 & Z & 2 \\
\hline
 & Z & 2 \\
\hline
 & CH_2R^4 & (II)
\end{array}$$

wherein.

Z is cyclohexenyl, or phenyl.

R21 is a non-interfering substituent:

R1 is -NHNH2 or -NH2.

R2 is selected from the group consisting of -OH and-O(CH₂)_mR5 where

R5 is H, -CO₂H. -CONH₂, -CO₂(C₁-C₄ alkyl).

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-P (R⁶R⁷)

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where R⁶ and R⁷ are each independently -OH or -O(C₁-C₄)alkyl. -SO₃H_. -SO₃(C1-C4 alkyl). tetrazolyl. -CN -NH₂. -NHSO₂R¹⁵, -CONHSO₂R¹⁵; where R¹⁵ is -(C₁-C₆)alkyl or -CF₃; phenyl or phenyl substituted with -CO₂H or -CO₂(C₁-C₄)alkyl where m is 1-3.

- 10 R³ is H, -O(C₁-C₄)alkyl halo -(C₁-C₆)alkyl, phenyl, -(C₁-C₄)alkylphenyl phenyl substituted with -(C₁-C₆)alkyl, halo, or -CF₃, -CH₂OSi(C₁-C₆) alkyl, furyl, thiophenyl, -(C₁-C₆)hydroxyalkyl, (C₁-C₆) alkoxy(C₁-C₆)alkyl, -(C₁-C₆) alkoxy(C₁-C₆)alkyl, -(C₁-C₆) alkyl, -(C₁-C₆)alkyl, -(C₁-C₆)alkyl, -(C₁-C₆)alkyl, -(C₁-C₄)alkyl, -(C₁-C₄) alkylphenyl or -phenyl where R³ and R¹0 are independently hydrogen, -CF₃, phenyl, -(C₁-C₄)alkyl, -(C₁-C₄) alkylphenyl or -phenyl substituted with from 1-5 substituents selected from the group consisting of -(C₁-C₆)alkyl, halo, -CF₃, -OCF₃, -(C₁-C₄)alkoxy, -CN, -(C₁-C₄)alkylthio, phenyl (C1-C₄)alkyl, -(C₁-C₄)alkylphenyl, phenyl, phenoxy, -OR³, where R³ and R¹0 are independently hydrogen, -CF₃, phenyl, -(C₁-C₄)alkyl, -(C₁-C₄)alkylphenyl or -phenyl(C₁-C₄) alkyl, tetrazole; tetrazole substituted with -(C₁-C₄)alkyl or -(C₁-C₄)alkylphenyl or naphthyl;
- 20 or a pharmaceutically acceptable racemate solvate tautomer, optical isomer, prodrug derivative or salt, thereof.
 - a) esterifying a compound of formula XVI

25 OH X X (XVI)

35 where X is halo.

to form a compound of formula XV

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where PG is an acid protecting group
b) reducing a compound of formula XV to form a compound of formula XIV

where PG is an acid protecting group

c) condensing a compound of formula XIV with a compound of formula XIII

where $R^3(a)$ is H. -O(C_1 -C₄)alkyl, halo.-(C_1 -C₆)alkyl, phenyl, -(C_1 -C₄)alkylphenyl; phenyl substituted with -(C_1 -C₆) alkyl, halo or -CF₃. -CH₂OSi(C_1 -C₆)alkyl, furyl, thiophenyl,-(C_1 -C₆)hydroxyalkyl,-(C_1 -C₆)alkoxy(C_1 -C₆)alkyl, -(C_1 -C₇-C₈)alkyl,-(C_1 -C₈)alkyl,-(C_1 -C₈)alkyl and n is 1 to 8 to form a compound of formula **XII**

d) cyclizing a compound of formula XII to form a compound of formula XI

) alkylating a compound of formula XI with an alkylating agent of the formula XCH_2R^4 , wher X is halo to formula X

f) dehydrogenating a compound of formula X to form a compound of formula IX

g) arminating a compound of formula IX to form a compound of formula VIII

h) alkylating a compound of formula VIII with an alkylating agent of formula XCH₂R¹⁵ where X is halo and R¹⁵ is -CO₂R¹⁶, -SO₃R¹⁶, -P(O) (OR¹⁶)₂, or -P(O) (OR¹⁶)H, where R¹⁶ is an acid protecting group to form a compound of formula VII

i) optionally hydrolyzing a compound of formula VII to form a compound of formula I and optionally salifying a compound of formula I

[0013] This invention provides, in addition, a process for preparing compounds of formula II or a pharmaceutically acceptable racemate, solvate, tautomer, optical isomer, prodrug derivative or salt, thereof, which process comprises the steps of.

a) esterifying a compound of formula XVI

where X is halo to form a compound of formula XV

where PG is an acid protecting group:
b) condensing a compound of formula XVII with a compound of formula XVII

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to form a compound of formula XVIII

XVIII

c) cyclizing a compound of formula XVIII to form a compound of formula XIX

d) alkylating a compound of formula XIX with an alkylating agent of the formula XCH₂R⁴, where X is halo, to form a compound of formula XX

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e) dealkylating a compound of formula XX to form a compound of formula IX

I) aminating compound of formula IX to form a compound of formula VIII

VIII

IX

g) alkylating a compound of formula VIII with an alkylating agent of formula XCH₂R¹⁵, where X is halo and R¹⁵ is -CO₂R¹⁶, -SO₃R¹⁶, P(O)(OR¹⁶)₂, or -P(O) (OR¹⁶)H, where R¹⁶ is an acid protecting group to form a compound of formula VII

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VII

h) optionally hydroyzing a compound of formula VII to form a compound of formula I and optionally salifying a compound of formula I

[0014] This invention provides, in addition, new intermediates of the formula III

$$\mathbb{R}^{3(a)}$$

$$\mathbb{R}^{12}$$

$$\mathbb{R}^{21}$$

$$\mathbb{R}^{21}$$

$$\mathbb{C}O_{2}\mathbb{R}\mathbb{P}G$$
(III)

wherein.

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PG is an acid protecting group

R21 is a non-interfering substituent;

R12 is H or CH2R4 where

 R^4 is H. -(C_5 - C_{14})alkyl. -(C_3 - C_{14})cycloalkyl. pyridyl, phenyl or phenyl substituted with from 1-5 substituents selected from the group consisting of -(C_1 - C_6)alkyl. halo, -CF₃. -OCF₃. -(C_1 - C_4)alkoxy, -CN. -(C_1 - C_4)alkylthio, phenyl (C1- C_4)alkyl.- (C_1 - C_4)alkylphenyl. phenoxy, -OR9; where R^9 and R^{10} are independently hydrogen, -CF₃. phenyl. -(C_1 - C_4)alkyl.-(C_1 - C_4) alkylphenyl or -phenyl(C_1 - C_4) alkyl tetrazole, tetrazole substituted with -(C_1 - C_4) alkyl or -(C_1 - C_4)alkylphenyl; or naphthyl;

 $\rm R^3(a)$ is H, -O(C1-C4)alkyl, halo, -(C1-C6)alkyl, phenyl, -(C1-C4)alkylphenyl; phenyl substituted with-(C1-C6)alkyl, halo or -CF3. -CH2OSi(C1-C6)alkyl, furyl, thiophenyl,-(C1-C6)hydroxyalkyl,- (C1-C6)alkoxy(C1-C6)alkoxy(C1-C6)alkoxy(C1-C6)alkoxy(C1-C6)alkoxy(C1-C6)alkoxy(C1-C6)alkoxy(C1-C6)alkoxy(C1-C6)alkoxy(C1-C6)alkoxy(C1-C6)alkoxy(C1-C6)alkoxy(C1-C6)alkoxy(C1-C6)alkoxy(C1-C6)alkyl, -(C1-C4)alkyl, -(C1-C4)alkylphenyl or -phenyl(C1-C4)alkyl and n is 1 to 8:

Z is cyclohexenyl or phenyl; and

X is halo.

[0015] As another embodiment, this invention provides intermediates of the formula IV

$$R^{3(a)}$$

$$A$$

$$Z$$

$$CO_{2}PG$$
(IV)

15 wherein

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PG is an acid protecting group R²¹ is a non-interfering substituent

R12 is H or CH₂R4 where

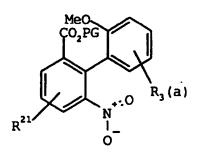
 R^4 is H -(C_5 - C_{14})alkyl -(C_3 - C_{14})cycloalkyl, pyridyl, phenyl or phenyl substituted with from 1-5 substituents selected from the group consisting of -(C_1 - C_6)alkyl, halo - CF_3 . - OCF_5 -(C_1 - C_4)alkyxy, - CN -(C_1 - C_4)alkylthio, phenyl (C_1 - C_4)alkyl,- (C_1 - C_4)alkylphenyl phenyl, phenoxy, - OR^9 , where R^9 and R^{10} are independently hydrogen. - CF_3 - phenyl,-(C_1 - C_4)alkyl,-(C_1 - C_4) alkylphenyl or -phenyl(C_1 - C_4) alkyl tetrazole; tetrazole substituted with -(C_1 - C_4)alkyl or -(C_1 - C_4)alkylphenyl: or naphthyl

 $R^3(a)$ is H, $-O(C_1-C_4)$ alkyl. halo, $-(C_1-C_6)$ alkyl. phenyl. $-(C_1-C_4)$ alkylphenyl. phenyl substituted with $-(C_1-C_6)$ alkyl. halo or $-CF_3$. $-CH_2OSi(C_1-C_6)$ alkyl. furyl thiophenyl. $-(C_1-C_6)$ hydroxyalkyl. $-(C_1-C_6)$ alkoxy(C_1-C_6)alkoxy(C_1-C_6)alkoxy(C_1-C_6)alkoxy(C_1-C_6)alkoxy(C_1-C_6)alkoxy(C_1-C_6)alkoxy(C_1-C_6)alkyl. $-(C_1-C_4)$ alkyl. $-(C_1-C_4)$ alkyl.

R¹¹ is -OH, =0. -O(C₁-C4)alkyl or -O(CH₂)R¹⁵ where R¹⁵ is -CO₂R¹⁶. -SO₃R¹⁶ P(O) (OR¹⁶)₂. or -P(O) (OR¹⁶)H where R¹⁶ is an acid protecting group and

A and Z are each independently phenyl or cyclohexenyl provided that A and Z cannot both be phenyl.

[0016] In a still further embodiment, this invention provides new intermediates of the formula



XVIII

50 where PG is an acid protecting group.

R21 is a non-interfering substituent, and

 R^3 (a) is H -O(C_1 -C₄)alkyl. halo,-(C_1 -C₆)alkyl. phenyl. -(C_1 -C₄) alkylphenyl phenyl substituted with -(C_1 -C₆) alkyl. halo or -CF₃. -CH₂OSi(C_1 -C₆)alkyl, furyl, thiophenyl -(C_1 -C₆)hydroxyalkyl. -(C_1 -C₆)alkoxy(C_1 -C₆)alkoxy(C_1 -C₆)alkoxy(C_1 -C₆)alkoxyl. r -(CH₂)_nR⁸ where R⁸ is H.-NR⁹R¹⁰, -CN or phenyl where R⁹ and R¹⁰ are independently hydrogen -CF₃ phenyl.-(C_1 -C₄)alkyl -(C_1 -C₄)alkyl hyl or -phenyl(C_1 -C₄)alkyl and n is 1 to 8

[0017] Other objects, features and advantages of the present invention will become apparent from the subsequent

description and the appended claims.

Definitions.

[0018] As used herein, the term. "alkyl" by itself or as part of another substituent means, unless otherwise defined. a straight or branched chain monovalent hydrocarbon radical such as methyl, ethyl, n-propyl, isopropyl in-butyl, tertiary butyl, isobutyl, sec-butyl tert butyl, n-pentyl, isopentyl, neopentyl, heptyl, hexyl, octyl, nonyl, decyl, undecyl, tindecyl, tetradecyl and the like. The term "alkyl" includes -(C₁-C₂)alkyl,-(C₁-C₄)alkyl -(C₁-C₆)alkyl,-(C₅-C₁₄)alkyl, and -(C₁-C₁₀)alkyl.

[0019] The term "alkenyl" as used herein represents an olefinically unsaturated branched or linear group having at least one double bond. Examples of such groups include radicals such as vinyl, allyl, 2-butenyl, 3-butenyl, 2-pentenyl, 3-pentenyl, 4-pentenyl, 3-pentenyl, 4-pentenyl, 4-heptenyl, 5-heptenyl, 5-heptenyl, 6-heptenyl as well as dienes and trienes of straight and branched chains.

[0020] The term 'alkynyl' denotes such radicals as ethynyl, propynyl, butynyl, pentynyl, hexynyl, heptynyl as well as di- and tri-ynes.

[0021] The term "halo" means chloro, fluoro, bromo or iodo.

[0022] The term $^{\circ}$ -(C₁-C₄)alkoxy $^{\circ}$. as used herein, denotes a group such as methoxy, ethoxy in-propoxy, isopropoxy, n-butoxy, t-butoxy and like groups, attached to the remainder of the molecule by the oxygen atom

[0023] The term "phenyl(C₁-C₄)alkyl" refers to a straight or branched chain alkyl group having from one to four carbon atoms attached to a phenyl ring which chain is attached to the remainder of the molecule. Typical phenylalkyl groups include benzyl, phenylethyl, phenylpropyl, phenylsopropyl, and phenylbutyl.

[0024] The term "- (C_1-C_4) alkylthio" defines a straight or branched alkyl chain having one to four carbon atoms attached to the remainder of the molecule by a sulfur atom. Typical - (C_1-C_4) alkylthio groups include methylthio, ethylthio, propylthio, butylthio and the like.

[0025] The term "-(C₃-C₁₄)cycloalkyl" includes groups such as cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, cyclohexyl, cycloddecyl, cycloddecyl, cyclotridecyl, cyclotridecyl and the like The term "-(C₃-C₁₄)cycloalkyl" includes and -(C₃-C₇)cycloalkyl.

[0026] The term, "heterocyclic radical", refers to radicals derived from monocyclic or polycyclic, saturated or unsaturated, substituted or unsubstituted heterocyclic nuclei having 5 to 14 ring atoms and containing from 1 to 3 hetero atoms selected from the group consisting of nitrogen, oxygen or sulfur Typical heterocyclic radicals are pyridyl, thienyl, fluorenyl, pyrrolyl, furanyl, thiophenyl, pyrazolyl, imidazolyl, phenylimidazolyl, triazolyl, isoxazolyl, oxazolyl, thiadiazolyl, indolyl, carbazolyl, norharmanyl, azaindolyl, benzofuranyl, dibenzofuranyl, thianaphtheneyl, dibenzothiophenyl indazolyl imidazo(1.2-A)pyridinyl benzofurazolyl, anthranilyl, 1,2-benzisoxazolyl, benzoxazolyl, benzothiazolyl, purinyl, pryidinyl, dipyridylyl, phenylpyridinyl, benzylpyridinyl, pynmidinyl, phenylpyrimidinyl, pyrazinyl, 1,3,5-triazinyl, quinolinyl, phthalazinyl, quinazolinyl, and quinoxalinyl.

[0027] The term "carbocyclic radical" refers to radicals derived from a saturated or unsaturated, substituted or unsubstituted 5 to 14 membered organic nucleus whose ring forming atoms (other than hydrogen) are solely carbon atoms. Typical carbocyclic radicals are cycloalkyl, cycloalkenyl, phenyl, naphthyl, norbornanyl, bicycloheptadienyl, tolulyl, xylenyl, indenyl, stilbenyl, terphenylyl, diphenylethylenyl, phenylcyclohexeyl, acenaphthylenyl, and anthracenyl, biphenyl, bibenzylyl and related bibenzylyl homologues represented by the formula (bb),

where n is an integer from 1 to 8

[0028] The term, "non-interfering substituent", refers to radicals suitable for substitution at positions 1, 2, 3, 7 and or 8 on the tricyclic nucleus (as depicted in Formula III) and radical(s) suitable for substitution on the heterocyclic radical and carbocyclic radical as defined above. Illustrative non-interfering radicals are hydrogen, - $(C_1$ - C_{14})alkyl.- $(C_2$ - C_6) alkenyl.- $(C_2$ - C_6)alkynyl, - $(C_7$ - C_{12})aralkyl.- $(C_7$ - C_{12})alkaryl.- $(C_3$ - C_8)cycloalkyl.- $(C_3$ - C_8)cycloalkenyl. phenyl, tolulyl, xylenyl, biphenyl, - $(C_1$ - C_6)alkoxy, - $(C_2$ - C_6)alkoxylenyloxy, - $(C_1$ - C_1)alkoxylenyloxy, - $(C_1$ - C_1)alkylcarbonyl - $(C_1$ - C_1)alkylcarbonylamino, - $(C_1$ - C_1)alkylcarbonyl.- $(C_1$ - C_1)alkylcarbonyl.- $(C_1$ - C_1)alkylthio.

- $(C_1$ - C_1)alkylthio.

- $(C_1$ - C_1)alkylthio.

- $(C_1$ - C_6)haloalkylsulfonyl.- $(C_1$ - C_6)haloalkyl.- $(C_1$ - C_6)haloalkyl.- $(C_1$ - C_6)haloalkyl.- $(C_1$ - C_6)haloalkyl.- $(C_1$ - $(C_1$ - $(C_1$)alkyl.- $(C_1$ - $(C_1$)alkyl.-

 $C_6 alkyl). -(CH_2)_n O(C_1 - C_6 alkyl) \ benzyloxy, \ phenoxy, \ phenyllthio -(CONHSO_2)R^{15} \ where \ R^{15} \ is -(C_1 - C_6)alkyl. -CF_3, \ naphthyl \ or -(CH_2)_n phenyl \ where \ s \ 0-5' -CHO. -CF_3, -OCF_3 \ pyridyl, \ amino. \ amidino, \ halo. \ carbamyl. \ carboxyl. \ carbamyl. \ carboxyl. \ carbamyl. \ carboxyl. \ carbamyl. \ carboxyl. \ carbamyl. \ oxide \ hydrazino, \ hydrazido, \ hydra$

[0029] The term "acidic group" means an organic group which when attached to a tricyclic nucleus. Ihrough suitable linking atoms (hereinafter defined as the "acid linker"), acts as a proton donor capable of hydrogen bonding. Illustrative of an acidic group are the following.

-CO₂H,

-5-tetrazolyl

-SO₃H.

•

---ОН

55 — P—O—(CH₂) a—N—R₉₉

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where n is 1 to 8. R_{89} is a metal or -(C_1 - C_{10})alkyl, and R_{99} is hydrogen or -(C_1 - C_{10})alkyl [0030] The words, "acid linker" refer to a divalent linking group symbolized as, -(L_a)-, which has the function of joining the 5 or 6 position of the tricyclic nucleus to an acidic group in the general relationship:

(tricyclic nucleus) -(L_a)- Acidic Group

35 [0031] The words "acid linker length", refer to the number of atoms (excluding hydrogen) in the shortest chain of the linking group -(L_a)- that connects the 5 or 6 position of the tricyclic nucleus with the acidic group. The presence of a carbocyclic ring in -(L_a)- counts as the number of atoms approximately equivalent to the calculated diameter of the carbocyclic ring. Thus, a benzene or cyclohexane ring in the acid linker counts as 2 atoms in calculating the length of -(L_a)- Illustrative acid linker groups are:

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$$\begin{bmatrix}
R_{\theta 4} \\
Q \cdot (C) \\
R_{\theta 5}
\end{bmatrix}$$
(d)

where t is 1 to 5. Q is selected from the group - $\{CH_2\}$ -, -O-, -NH-, and -S-, and R_{84} and R_{85} are each independently selected from hydrogen.- $\{C_1-C_{10}\}$ alkyl aryl. - $\{C_1-C_{10}\}$ alkaryl, - $\{C_1-C_{10}\}$ aralkyl, carboxy, carbalkoxy, and halo when t is one (1) groups (a). (b). (c) and (d) have acid linker lengths of 3, 3, 2, and 2, respectively

[0032] The salts of the above tricyclics are an additional aspect of the invention. In those instances where the compounds of the invention possess acidic functional groups various salts may be formed which are more water soluble and physiologically suitable than the parent compound. Representative pharmaceutically acceptable salts include but are not limited to the alkali and alkaline earth salts such as lithium, sodium, potassium, calcium, magnesium, aluminum and the like. Salts are conveniently prepared from the free acid by treating the acid in solution with a base or by exposing the acid to an ion exchange resin.

[0033] Included within the definition of pharmaceutically acceptable salts are the relatively non-toxic, inorganic and organic base addition salts of compounds of the present invention, for example, ammonium, quaternary ammonium, and amine cations, derived from nitrogenous bases of sufficient basicity to form salts with the compounds of this invention (see, for example, S. M. Berge, et al., "Pharmaceutical Salts," J. Phar Sci. 66, 1-19 (1977)).

[0034] Compounds of the invention may have chiral centers and exist in optically active forms. R- and S-isomers and racemic mixtures are contemplated by this invention. A particular stereoisomer may be prepared by known methods using stereospecific reactions with starting materials containing asymmetric centers already resolved or, alternatively, by subsequent resolution of mixtures of stereoisomers using known methods.

[0035] Prodrugs are derivatives of the compounds of the invention which have chemically or metabolically cleavable groups and become by solvolysis or under physiological conditions the compounds of the invention which are pharmaceutically active in vivo. Derivatives of the compounds of this invention have activity in both their acid and base derivative forms but the acid derivative form often offers advantages of solubility, tissue compatibility, or delayed release in a mammalian organism (see. Bundgard, H. Design of Prodrugs pp. 7-9, 21-24. Elsevier Amsterdam 1985) Prodrugs include acid derivatives, such as esters prepared by reaction of the parent acidic compound with a suitable alcohol, or amides prepared by reaction of the parent acid compound with a suitable amine. Simple aliphatic esters (e.g. methyl, ethyl propyl, isopropyl, butyl, sec-butyl, tert-butyl) or aromatic esters derived from acidic groups pendent on the compounds of this invention are preferred prodrugs. Other preferred esters include morpholinoethyloxy, diethylglycolamide and diethylaminocarbonylmethoxy. In some cases it is desirable to prepare double ester type prodrugs such as (acyloxy) alkyl esters.

[0036] The term "acid protecting group" is used herein as it is frequently used in synthetic organic chemistry, to refer to a group which will prevent an acid group from participating in a reaction carried out on some other functional group in the molecule but which can be removed when it is desired to do so. Such groups are discussed by T. W. Greene in chapter 5 of Protective Groups in Organic Synthesis. John Wiley and Sons. New York. 1981. incorporated herein by reference in its entirety. Examples of acid protecting groups include ester or amide derivatives of the acid group such as, methyl, methyl-thiomethyl, tetrahydropyranyl methoxyethoxymethyl, benzyloxymethyl, phenyl, aryl, ethyl. 2.2, 2-trichloroethyl. 2-methylthioethyl, t-butyl, cyclopentyl, triphenylmethyl, diphenylmethyl, benzyl, trimethylsilyl. N.N-dimethyl, pyrrolidinyl, piperidinyl, or o-nitroanilide. A preferred acid-protecting group is methyl.

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Pref rred Subgroups of Compounds of F rmula (I)

[0037] A preferred subclass of compounds of formula (I) are those wherein \mathbb{R}^{21} is selected from the group hydrogen, halo, $-(C_1-C_3)$ alkyl, $-(C_3-C_4)$ cycloalkyl, $-(C_3-C_4)$ cycloalkyl,

[0038] Another preferred subclass of compounds of formula (I) are those wherein for FE', -(L)- is an alkyl chain of 1 or 2 carbon atoms.

[0039] Another preferred subclass of compounds of formula (I) are those wherein for R²⁰, group R⁸⁰ is selected from the group consisting of cycloalkyl, cycloalkenyl, phenyl, naphthyl, norbornanyl, bicycloheptadienyl, tolulyl, xylenyl, indenyl, stilbenyl, terphenylyl, diphenylethylenyl, phenyl-cyclohexenyl, acenaphthylenyl, and anthracenyl, biphenyl, bibenzylyl and related bibenzylyl homologues represented by the formula (bb)

where n is a number from 1 to 8. Particularly preferred are compounds wherein H²⁰ is selected from the group consisting of

$$-(CH_2)_{1-2}$$

and

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where R¹⁷ is a radical independently selected from halo, -(C₁-C₁₀)alkyl, -(C₁-C₁₀)alkoxy, -S-(C₁-C₁₀ alkyl), and -(C₁-C₁₀)haloalkyl, and w is a number from 0 to 5.

[0040] Another preferred subclass of compounds of formula (I) are those wherein F2 is a substituent having an acid linker with an acid linker length of 2 or 3. Most preferred are compounds where the acidic group is selected from

-5-tetrazolyi,

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55 HO N S

where n is 1 to 8. R_{89} is a m-tal or -(C_1 - C_{10})alkyl, and R_{99} is hydrogen or -(C_1 - C_{10})alkyl. Particularly pref-rred are compounds wherein the acidic group of R^2 is selected from

-CO₂H .

-SO₂H .

-P(O) (OH),

or salt. and prodrug (e.g. ester) derivatives thereof.

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[0041] Another preferred subclass of compounds of formula (I) are those wherein H^2 is a substituent having an acid linker with an acid linker length of 2 or 3 and the acid linker group. -(L_a)-, for H^2 is selected from a group represented by the formula;

Q R₈₄

where Q is selected from the group -(CH₂)- -O-. -NH- and -S-. and R_{84} and R_{85} are each independently selected from hydrogen, -(C₁-C₁₀)alkyl, aryl.-(C₁-C₁₀)alkylaryl, -aryl(C₁-C₁₀)alkyl, carboxy, carbalkoxy and halo. Most preferred are compounds where the acid linker, -(L_a)-. for R^{2} is selected from the specific groups.

-Го --сн, -

Ғs —сн.∓

FNH-CH,

-{cн₂--сн₂--

FI CHI

and

[0042] Another preferred subclass of compounds of formula (I) are those wherein \mathbb{R}^2 is a substituent having an acid linker with an acid linker length of 3 to 8 atoms and the acid linker group, -(L_a)-, for \mathbb{R}^2 is selected from.

Q (C) (phenylene) s

where r is a number from 1 to 7, s is 0 or 1, and Q is selected from the group -(CH₂)-, -O-. -NH-, and -S- and R₈₄ and R₈₅ are each independently selected from hydrogen, -(C₁-C₁₀)alkyl. aryl.-(C₁-C₁₀)alkylaryl, -aryl(C₁-C₁₀)alkyl, carboxy. carbalkoxy and halo

[0043] Most preferred are compounds where the acid linker. -(L_a)- for R^{2*} is selected from the specific groups:

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and

$$H_2C$$
 R_{85}
 R_{85}
 R_{85}

wherein R₈₄ and R₈₅ are each independently selected from hydrogen, -(C₁-C₁₀)alkyl, aryl, -(C₁-C₁₀)alkaryl -(C₁-C₁₀) aralkyl, carboxy, carbalkoxy, and halo

[0044] Another preferred subclass of compounds of formula (III) are those wherein R³ is selected from hydrogen and non-interfering substituents, with the non-interfering substituents being selected from the group consisting of hydrogen -(C₁-C₆)alkyl,-(C₂-C₆)alkenyl,-(C₂-C₆)alkynyl, -(C₇-C₁₂)aralkyl,-(C₇-C₁₂)alkaryl -(C₃-C₈)cycloalkyl, -(C₃-C₈) cycloalkenyl, phenyl, tolutyl, xylenyl, biphenyl, -(C₁-C₆)alkoxy,-(C₂-C₆)alkenyloxy-(C₂-C₆)alkynyloxy, -(C₁-C₁₂)alkoxy-alkyl,-(C₁-C₁₂)alkoxyatkyloxy, -(C₁-C₁₂)alkylcarbonyl,-(C₁-C₁₂)alkylcarbonylamino, -(C₁-C₁₂)alkoxyamino,-(C₁-C₁₂)alkylcarbonyl,-(C₁-C₁₂)alkylthicarbonyl,-(C₁-C₆)alkylsulfinyl,-(C₁-C₆)alkylsulfinyl,-(C₁-C₆)alkylsulfinyl,-(C₁-C₆)haloalkyl, -(C₁-C₆)haloalkyl, -(C₁-C₆)haloalkyl, -(C₁-C₆)haloalkyl, -(C₁-C₆)alkyl), benzyloxy, halo, phenylthic; phenyl substituted with -(C₁-C₆)alkyl, halo, or -CF₃; furyl, thiophenyl, -(CH₂)_nCN,-(CH₂)_nR⁸ where R⁸ is H. -CONH₂, -NR⁹R¹⁰, -CN or phenyl where R⁹ and R¹⁰ are independently -(C₁-C₄)alkyl or -phenyl(C₁-C₄);-CHO, amino, amidino, carbamyl, carboxyl, carbalkoxy,-(CH₂)_nCO₂H, cyano, cyanoguanidinyl, guanidino, hydrazide, hydrazino, hydrazido, hydroxy, hydroxyamin, nitro, phosphono, -SO₃H, thioac tal, thiocarbonyl, and -(C₁-C₆)alkylcarbonyl, where n is from 1 to 8.

[0045] Another preferred group of substituents for R3 include H. -O(C1-C4)alkyl, halo, -(C1-C6)alkyl, phenyl, -(C1-C4)

alkylphenyl, phenyl substituted with- (C_1-C_6) alkyl, halo, or -CF₃, -CH₂OSi(C_1-C_6)alkyl, furyl, thiophenyl - (C_1-C_6) hydroxyalkyl, or - $(CH_2)_n$ R⁸ where R⁶ is H. -CONH₂, -NR⁹R¹⁰.-CN or phenyl where R⁹ and R¹⁰ are independently - (C_1-C_4) alkyl or -phenyl(C_1-C_4)alkyl and n is 1 to 8.

[0046] Yet another preferred group include H. $-O(C_1-C_4)$ alkyl, halo, $-(C_1-C_6)$ alkyl, phenyl. $-(C_1-C_4)$ alkylphenyl phenyl substituted with $-(C_1-C_6)$ alkyl halo or $-CF_3$. $-CH_2OSi(C_1-C_6)$ alkyl, furyl thiophenyl $-(C_1-C_6)$ hydroxyalkyl, or $-(CH_2)_n$ R8 where R8 is H. -NR9R10 -CN or phenyl where R9 and R10 are independently- $-(C_1-C_4)$ alkyl or -phenyl $-(C_1-C_4)$ alkyl and n is 1 to 8

[0047] Preferred compounds of the invention are those having the general formula (II)

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wherein

 R^1 is -NHNH₂. or -NH₂: R^2 is selected from the group consisting of -OH and-O(CH₂)_m R^5 where R^5 is H. -CO₂H, -CO₂(C₁-C₄ alkyl).

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where R⁶ and R⁷ are each independently -OH or -O(C₁-C₄)alkyl. SO₃H.-SO₃(C₁-C₄ alkyl). tetrazolyl -CN. -NH₂-NHSO₂R¹⁵-CONHSO₂R¹⁵ where R¹⁵ is -(C₁-C₆)alkyl or -CF₃, phenyl or phenyl substituted with -CO₂H or -CO₂ (C₁-C₄)alkyl where m is 1-3

 R^3 is H. $O(C_1-C_4)$ alkyl. halo. (C_1-C_6) alkyl. phenyl $-(C_1-C_4)$ alkylphenyl. phenyl substituted with $-(C_1-C_6)$ alkyl. halo. or $-CF_3$: $-CH_2OSi(C_1-C_6)$ alkyl furyl, thiophenyl. $-(C_1-C_6)$ hydroxyalkyl. or $-(CH_2)_nR^8$ where R^8 is H $-CONH_2-NR^9R^{10}$ -CN or phenyl where R^9 and R^{10} are independently $-(C_1-C_4)$ alkyl or -phenyli $-(C_1-C_4)$ alkyl and n is 1 to 8 R^4 is H. $-(C_5-C_{14})$ alkyl. $-(C_3-C_{14})$ cycloalkyl. pyridyl. phenyl or phenyl substituted with $-(C_1-C_6)$ alkyl. halo $-CF_3$. $-(C_1-C_4)$ alkoxy. -CN $-(C_1-C_4)$ alkylthio phenyl $-(C_1-C_4)$ alkyl. $-(C_1-C_4)$ alkylphenyl. phenyl. phenoxy or naphthyl.

Z is cyclohexenyl. or phenyl.

- or a pharmaceutically acceptable racemate, solvate, tautomer, optical isomer, prodrug derivative or salt, thereof.

 [0048] Preferred substituents of compounds of formula I and II include the following:
 - (a) R1 is -NH2. -NHNH2.
 - (b) R1 is -NH₂.
 - (c) R2 is -O(CH2)mR5 where R5 is -H -CO2H or

where R^6 and R^7 are -OH. (d) R^2 is -OH

(e) R^2 is $-O(CH_2)_mR^5$ where R^5 is -H, $-CO_2(C_1-C_4$ alkyl), phenyl or phenyl substituted with $-CO_2H$ or $-CO_2(C_1-C_4)$ alkyl).

(1) H^2 is $-O(CH_2)_m R^5$ where H^5 is

and R⁶ and R⁷ are -O(C₁-C₄ alkyl), or when one of R⁶ and R⁷ is -O(C₁-C₄ alkyl), the other is -OH

(g) R^3 is -H -O(C₁-C₄ alkyl) or -(CH₂)_n R^8 where

n = 2 and

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R8 is H or phenyl.

(h) R3 is H, or -O(C1-C4 alkyl):

(i) R3 is -(CH₂), R8 where R8 is -NR9R10.

or -CN where R9 and R10 are -(C1-C4)alky!.

(j) R4 is phenyl:

(k) R4 is phenyl substituted at the 2- and 6-position of the phenyl ring with -(C1-C4)alkyl, (C1-C4)alkoxy, halo or phenyl

(i) \mathbb{R}^4 is phenyl substituted at the 2- or 6-position of the phenyl ring with - (C_1-C_4) alkyl. - (C_1-C_4) alkoxy, halo or phenyl (m) \mathbb{R}^4 is phenyl substituted at the 3- or 5-position of the phenyl ring with - (C_1-C_4) alkyl, - (C_1-C_4) alkoxy, halo or phenyl.

(n) \mathbb{H}^4 is -(\mathbb{C}_6 - \mathbb{C}_{14})alkyl or-(\mathbb{C}_6 - \mathbb{C}_{14})cycloalkyl.

(o) Z is cyclohexenyl.

(p) R5 is H, -CO₂H. -CO₂(C₁-C₄ alkyl),

-NHSO $_2$ (C $_1$ -C $_6$)alkyl, -CONHSO $_2$ (C $_1$ -C $_6$)alkyl tetrazolyl, phenyl or phenyl substituted with -CO $_2$ H or -CO $_2$ (C $_1$ -C $_4$ alkyl) where R 6 and R 7 are each independently -OH or -O(C $_1$ -C $_4$ alkyl) and m is 1-3.

(q) R5 is H -CO2H. -CO2(C1-C4 alkyl).

phenyl. or phenyl substituted with -CO₂H or -CO₂(C_1 - C_4 alkyl) where R⁶ and R⁷ are each independently -OH or -O(C_1 - C_4 alkyl) and m is 1-3:

(r) Z is cyclohexenyl.

(s) Z is phenyl.

(1) R5 is H, -CO2H, -CO2(C1-C4 alkyl):

where R⁶ and R⁷ are each independently -OH or -O(C_1 - C_4)alkyl: -SO₃H. -SO₃(C1-C4 alkyl), tetrazolyl,-CN, -NH₂, -NHSO₂R¹⁵; -CONHSO₂R¹⁵, where R¹⁵ is-(C_1 - C_6)alkyl or -CF₃. phenyl or phenyl substituted with -CO₂H or -CO₂

(C1-C4)alkyl where m is 1-3, and (u) R3 is H. -O(C1-C4)alkyl, halo,-(C1-C6)alkyl, phenyl -(C1-C4) alkylphenyl, phenyl substituted with -(C1-C6)alkyl, $\label{eq:halo or -CF_5 - CH_2OSi(C_1-C_6)alkyl. furyl thiophenyl, -(C_1-C_6)hydroxyalkyl-(C_1-C_6) alkoxy(C_1-C_6) alkyl. - (C_1-C_6)hydroxyalkyl-(C_1-C_6) alkyl. - (C_1-C_6)hydroxyalkyl-(C_1-C_6) alkyl. - (C_1-C_6)hydroxyalkyl-(C_1-C_6) alkoxy(C_1-C_6) alkyl. - (C_1-C_6)hydroxyalkyl-(C_1-C_6)hydroxya$ alkoxy(C_1 - C_6)alkoxy(C_1 - C_6)alkoxy(C_1 - C_6) alkyl,- (C_1 - C_6)alkoxy.-(C_1 - C_6)alkoxyl, or -(CH_2)_n H^8 where H^8 is H, -CONH₂ -NR⁹R¹⁰. -CN or phenyl where R⁹ and R¹⁰ are independently hyd rogen, -CF₃, phenyl -(C₁-C₄)alkyl,-(C1-C4)alkylphenyl or -phenyl (C1-C4)alkyl and n is 1 to 8

- [0049] Further typical examples of compounds of formula I which are useful in the present invention include 10 5-hydroxy-7- (5-cyanopentyl)-9-methyl-1 2 3 4-tetrahydrocarbazole-4-carboxamide 6-(2-carboxyethoxy)-8-methoxy-9-cyclopentylmethyl-1,2,3,4-tetrahydrocarbazole-4-carboxamide. 5-(3-phenylpropoxy)-7-ethoxy-9-butyl-1,2,3 4-tetrahydrocarbazole-4-carboxamide: 6-(2-phosphonoethoxy)-8-phenylhexyl-9-(cyclotetradecyl)methyl-1 2.3.4-tetrahydrocarbazole-4-carboxarmide. 5-elhoxycarbonylmethoxy-8-(5-carbamoylpent-1-yl)-9-(3.5-dipropylphenyl)methyl-1.2.3 4-tetrahydrocarbazole-15 4-carboxamide: 6-(diethoxyphosphonyl)methoxy-9-(4-methoxyphenyl)methyl-1,2.3 4-tetrahydrocarbazole-4-carboxamide 6-(3-(4-carboxyphenyl)prop-1-yl)oxy-8-heptyl-9-(3-phenylethyl)phenyl)methyl-1 2.3.4-tetrahydrocarbazole-4-carboxamide. 6-(2-propoxycarbonyl)ethoxy-8-(3-(N.N-dimethylamino)prop-1-yl)-9-methyl-1.2.3.4-tetrahydrocarbazole-4-car-20 boxamide 5-(di-t-butoxyphosphonyl)methoxy-7-nonyl-9-(3-propylthiophenyl)methyl-1.2.3,4-tetrahydrocarbazole-4-carboxa-5-(2-(3-methoxycarbonyl)phenyl)ethoxy-7-pentyl-9-methyl-1.2,3.4-tetrahydrocarbazole-4-carboxamide. 6-hydroxy-8-(4-(N.N-diethylamino)but-1-yl)-9-(3-fluorophenyl)methyl-1.2.3,4-tetrahydrocarbazole-4-carboxam-25 6-(2-phenylethoxy)-9-(2-phenylphenyl)methyl-1 2.3.4-tetrahydrocarbazole-4-carboxamide. (S)-6-((3-carboxy)prop-1-yl)oxy-8-propoxy-9-(7-cyanohept-1-yl)-1.2,3.4-tetrahydrocarbazole-4-carboxamide. 5-(propoxycarbonyl)methoxy-9-cyclopentylmethyl-1,2,3,4-tetrahydrocarbazole-4-carboxamide. (S)-5-(2-ethoxyphosphonyl)ethoxy-(4-carbamoyl)but-1-yl-9-(3-methylthiophenyl)methyl-1 2,3.4-tetrahydrocarba-30 zole-4-carboxamide 5-(3-(ethoxycarbonyl)prop-1-yl)oxy-7-propoxy-9-(cyclononyl)methyl-1.2.3 4-tetrahydrocarbazole-4-carboxamide. 5-(3-phosphonoprop-1-yl)oxy-8-heptyl-9-(4-chlorophenyl)methyl-1.2,3.4-tetrahydrocarbazole-4-carboxamide. 6-methoxycarbonylmethoxy-7-(5-cyanopent-1-yl)-9-tridecylmethyl-1,2,3,4-tetrahydrocarbazole-4-carboxamide. (S)-6-propoxycarbonylmethoxy-9-((3-isopropyl-5-methoxy)phenyl)methyl-1.2.3.4-tetrahydrocarbazole-4-carbox-35 (S)-6-dimethoxyphosphonoethoxy-8-(6-(N, N-dimethylamino)hex-1-yl-9-(3.5-dimethoxyphenyl)methyl-1,2,3,4-tetrahydrocarbazole-4-carboxamide. 5-hydroxy-7-(5-cyanopentyl)-9-methylcarbazole-4-carboxamide; 6-(2-carboxyethoxy)-8-methoxy-9-cyclopentylmethyl-carbazole-4-carboxamide. 40 5-(3-phenylprop-1-yl)oxy-7-ethoxy-9-butylcarbazole-4-carboxamide. 6-(2-phosphonoethoxy)-8-phenylhexyl-9-(cyclotetradecyl)methylcarbazole-4-carboxamide. 5-ethoxycarbonylmethoxy-8-(5-carbamoylpent-1-yl)-9-(3,5-dipropylphenyl)methylcarbazole-4-carboxamide 6-(diethoxyphosphonyl)methoxy-9-(4-methoxyphenyl)methylcarbazole-4-carboxamide. 6-(3-(4-carboxyphenyl)prop-l-yl)oxy-8-heptyl-9-(3-phenylethyl)phenyl)methylcarbazole-4-carboxamide:
- 45 6-(2-propoxycarbonyl)ethoxy-8-(3-(N,N-dimethylamino)prop-1-yl)-9-methylcarbazole-4-carboxamide: 5-((dr-t-butoxyphosphonyl)methoxy-7-nonyl-9-(3-propylihiopheny)methylcarbazole-4-carboxamide. (S)-5-(2-(3-methoxycarbonyl)phenyl)ethoxy-7-pentyl-9-methylcarbazole-4-carboxamide.
 - (S)-6-hydroxy-8-(4-(N.N-diethylamino)but-1-yl)-9-(3-fluorophenyl)methylcarbazole-4-carboxamide.
 - (S)-6-(2-phenylethoxy)-9-((2-phenyl)phenyl)methylcarbazole-4-carboxamide:
- 50 6-((3-carboxy)prop-1-yl)oxy-8-propoxy-9-(7-cyanohept-1-yl)-carbazole-4-carboxamide.
 - 5-(propoxycarbonyl)methoxy-9-cyclopentylmethylcarbazole-4-carboxamide:
 - 5-(2-ethoxyphosphonyl)ethoxy-(4-carbamoyl)but-1-yl-9-(3-methylthiophenyl)methylcarbazole-4-carboxamide;
 - 5-((3-ethoxycarbonyl)prop-1-yl)oxy-7-propoxy-9-(cyclononyl)methylcarbazole-4-carboxamide:
 - (S)-5-(3-phosphonoprop-1-yl)oxy-8-heptyl-9-(4-chlorophenyl)methylcarbazole-4-carboxamide,
 - (S)-6-methoxycarbonylmethoxy-7-(5-cyanopent-1-vi)-9-tridecylmethylcarbazole-4-carboxamide.
 - 6-(propoxycarbonyl)methoxy-9-(3-isopropyl-5-methoxy)phenyl)methylcarbaz ! -4-carboxamide:
 - 6-dimethoxyphosphonoethoxy-8-(6-(N.N-dimethylamino)hex-1-yl-9-(3,5-dimethoxyphenyl)methyl-carbazole-4-carboxamide

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- 5-hydroxy-7-(5-cyanopentyl)-9-methyl-1,2.3,4-letrahydrocarbazole-4-carboxylic acid hydrazide. 6-(2-carboxyethoxy-8-methoxy-9-cyclopentyl)methyl-1.2,3.4-tetrahydrocarbazole-4-carboxylic acid hydrazide. 5-(3-phenylprop-1-yl)oxy-7-ethoxy-9-butyl-1.2,3,4-tetrahydrocarbazole-4-carboxylic acid hydrazide. 6-(2-phosphonoethoxy)-8-phenylhexyl-9-(cyclotetradecyl)methyl-1,2,3,4-tetrahydrocarbazole-4-carboxylic acid hvdrazide: 5-ethoxycarbonylmethoxy-8-(5-carbarnoylpent-1-yl)-9-(3,5-dipropylphenyl)methyl-1,2 3,4-tetrahydrocarbazole-4-carboxylic acid hydrazide. (S)-6-(diethoxyphosphonyl)methoxy-9-(4-methoxyphenyl)methyl-1,2.3,4-tetrahydrocarbazole-4-carboxylic acid hydrazide: 6-(3-(4-carboxyphenyl)prop-1-yl)oxy-8-heptyl-9-((3-phenylethyl)phenyl)methyl-1,2,3 4-tetrahydrocarbazole-4-carboxylic acid hydrazide: (S)-6-(2-propoxycarbonyl)ethoxy-8-(3-(N,N-dimethylamino)prop-1-yl)-9-methyl-1.2.3,4-tetrahydrocarbazole-4-carboxylic acid hydrazide: 5-(di-t-butoxyphosphonyl)methoxy-7-nonyl-9-(3-propylthiopheny)methyl-1,2,3.4-tetrahydrocarbazole-4-carboxylic acid hydrazide: (S)-5-(2-(3-methoxycarbonyl)phenyl)ethoxy-7-pentyl-9-methyl-1.2,3,4-tetrahydrocarbazole-4-carboxylic acid hydrazide. 6-hydroxy-8-(4-(N.N-diethylamino)but-1-yl)-9-(3-fluorophenyl)methyl-1,2.3,4-tetrahydrocarbazole-4-carboxylic acid hydrazide: (S)-6-(2-phenylethoxy)-9-(2-phenylphenyl)methyl-1,2,3,4-tetrahydrocarbazole-4-carboxylic acid hydrazide; 6-((3-carboxy)prop-1-yl)oxy-8-propoxy-9-(7-cyanohept-1-yl)methyl-1,2.3,4-tetrahydrocarbazole-4-carboxylic acid hvdrazide: 5-(propoxycarbonyl)methoxy-9-cyclopentylmethyl-1,2,3,4-tetrahydrocarbazole-4-carboxylic acid hydrazide: 5-(2-ethoxyphosphonyl)ethoxy-(4-carbamoyl)but-1-yl-9-(3-methylthiophenyl)methyl-1.2.3,4-tetrahydrocarbazole-4-carboxylic acid hydrazide. 5-((3-(ethoxycarbonyl)prop-1-yl)oxy-7-propoxy-9-(cyclononyl)methyl-1 2.3,4-tetrahydrocarbazole-4-carboxylic acid hydrazide: 5-(3-phosphonoprop-1-yl)oxy-8-heptyl-9-(4-chlorophenyl)methyl-1.2,3.4-tetrahydrocarbazole-4-carboxylic acid hydrazide. 6-methoxycarbonylmethoxy-7-(5-cyanopent-1-yl)-9-tridecyl-1,2,3.4-tetrahydrocarbazole-4-carboxylic acid hydrazide: 6-propoxycarbonylmethoxy-9-(3-isopropyl-5-methoxyphenyl)methyl-1,2.3,4-tetrahydrocarbazole-4-carboxylic acid hydrazide; 6-dimethoxyphosphonoethoxy-8-(6-(N N-dimethylamino)hex-1-yl-9-(3,5-dimethoxyphenyl)methyl-1.2,3.4-tetrahydrocarbazole-4-carboxylic acid hydrazide; 5-hydroxy-7-(5-cyanopentyl)-9-methylcarbazole-4-carboxylic acid hydrazide; 6-(2-carboxyethyloxy)-8-methoxy-9-cyclopentylmethyl-carbazole-4-carboxylic acid hydrazide, 5-(3-phenylprop-1-yl)oxy-7-ethoxy-9-butylcarbazole-4-carboxylic acid hydrazide; 6-(2-phosphonoethoxy-8-phenylhexyl-9-(cyclotetradecyl)methylcarbazole-4-carboxylic acid hydrazide; 5-ethoxycarbonylmethoxy-8-(5-carbamoylpent-1-yl)-9-(3.5-dipropylphenyl)methylcarbazole-4-carboxylic acid hydrazide: 6-(diethoxyphosphonyl)methoxy-9-(4-methoxyphenyl)methylcarbazole-4-carboxylic acid hydrazide.
- drazide:

 6-(2-propoxycarbonyl)ethoxy-8-(3-(N,N-dimethylamino)prop-1-yl)-9-methylcarbazole-4-carboxylic acid hydrazide:
 - 5-(di-t-butoxyphosphonyl)methoxy-7-nonyl-9-(3-propylthiophenyl)methylcarbazole-4-carboxylic acid hydrazide 5-(2-(3-methoxycarbonyl)phenyl)ethoxy-7-pentyl-9-methylcarbazole-4-carboxylic acid hydrazide: 6-hydroxy-8-(4-(N,N-diethylamino)but-1-yl)-9-(3-fluorophenyl)methylcarbazole-4-carbazole.

6-(3-(4-carboxyphenyl)prop-1-yl)oxy-8-heptyl-9-((3-phenylethyl)phenyl)methylcarbazole-4-carboxylic acid hy-

- 6-(2-phenylethoxy)-9-(2-phenylphenyl)methylcarbazole-4-carboxylic acid hydrazide;
 6-((3-carboxy)prop-1-yl)oxy-8-propoxy-9-(7-cyanohept-1-yl)-carbazole-4-carboxylic acid hydrazide,
 (S)-5-(propoxycarbonyl)methoxy-9-cyclopentylmethylcarbazole-4-carboxylic acid hydrazide;
 5-(2-ethoxyphosphonyl)ethoxy-(4-carbamoyl)but-1-yl-9-(3-methylthiophenyl)methylcarbazole-4-carboxylic acid hydrazide:
- (S)-5-(3-(ethoxycarbonyl)prop-1-yl)oxy-7-propoxy-9-(cyclononyl)methylcarbazole-4-carboxylic acid hydrazide.
 5-(3-phosphonoprop-1-yl)oxy-8-heptyl-9-(4-chloroph nyl)methylcarbazole-4-carboxylic acid hydrazide;
 6-methoxycarbonylmethoxy-7-(5-cyanopent-1-yl)-9-tridecylcarbazole-4-carboxylic acid hydrazide;
 6-propoxycarbonylmethoxy-9-((3-isopropyl-5-methoxy)phenyl)methylcarbazole-4-carboxylic acid hydrazide;

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(S)-6-dimethoxyphosphonoethoxy-8-(6-(N.N-dimethylamino)hex-1-yl-9-(3.5-dimethoxyphenyl)methylcarbazole-
           4-carboxylic acid hydrazide.
           9-[(phenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[(2-phenoxyphenyl)methyl]-5-carbamovicarbazol-4-yl}oxyacetic acid.
           9-[i3-phenoxyphenyi)methyl]-5-carbamoylcarbazol-4-yi]oxyacetic acid.
           9-[(4-phenoxyphenyl)methyl]-5-carbamoylcarbazol-4-yl)oxyacetic acid
           9-[(2-fluorophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(3-fluorophenyl)methyl]-5-carbamoylcarbazol-4-yl)oxyacetic acid:
           9-[(4-fluorophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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           9-[(2-chlorophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid
           9-[(3-chlorophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid
           9-[(4-chlorophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[(2-bromophenyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid.
           9-[(3-bromophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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           9-[(4-bromophenyl)methyl]-5-carbamoylcarbazol-4-vi}oxvacetic acid:
           9-[(2-iodophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid-
           9-[(3-iodophenyl)methyl]-5-carbamoylcarbazol-4-yl|oxyacetic acid.
           9-[(4-iodophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[(2-acetamidophenyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid;
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           9-[(3-acetamidophenyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid.
           9-[(4-acetamidophenyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid.
           9-[(2-carbamoylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[(3-carbamoylphenyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid.
           9-[(4-carbamoylphenyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid.
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           9-[(2-methylsulfonylphenyl)methyl]-5-carbamoylcarbazol-4-yljoxyacetic acid.
           9-[(3-methylsulfonylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[(4-methylsulfonylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(2-methylphenyl)methyl]-5-carbamoylcarbazol-4-vl]oxyacetic acid.
           9-[(3-methylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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          9-[i4-methylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid-
           9-[i2-ethylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-I(3-ethylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(4-ethylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(2-trifluoromethylphenyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid;
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          9-[(3-trifluoromethylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-li4-trifluoromethylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(cyclopropyl)methyl]-5-carbamovicarbazol-4-vl]oxyacetic acid
          9-[(cyclobutyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[rcyclopentyl]methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid:
40
          9-[(cyclohexyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2-methoxyphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[i3-methoxyphenyl)methyl]-5-carbamoylcarbazol-4-vi}oxyacetic acid.
          9-[(4-methoxyphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-ethoxyphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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          9-f(3-ethoxyphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[i4-ethoxyphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[12-trifluoromethoxyphenyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid:
          9-[(3-trifluoromethoxyphenyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid:
          9-[(4-trifluoromethoxyphenyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid.
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          9-[(2-difluoromethoxyphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(3-difluoromethoxyphenyl)methyl]-5-carbamoylcarbazol-4-vi)oxyacetic acid.
          9-[(4-diffuoromethoxyphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-cyanophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(3-cyanophenylimethyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid:
55
          9-[(4-cyanophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2-pyridyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(3-pyridyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid.
          9-[(4-pyridyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid:
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9-[(2-furyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3-furyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-thienyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid:
          9-[(3-thienyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid:
5
          9-[(2-benzylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[13-benzylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(4-benzylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-benzoylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(3-benzoylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(4-benzoylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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          9-[(2-benzyloxyphenyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid:
          9-[(3-benzyloxyphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-f(4-benzyloxyphenyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid:
          9-1(2-phenylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[i3-phenylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid;
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          9-[14-phenylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(1-naphthyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2-naphthyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid:
          9-[(2.3-difluorophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid
20
          9-[(2.4-difluorophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid-
          9-[(2.5-difluorophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2.6-difluorophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-f(3.4-difluorophenyl)methyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid:
          9-[(3.5-difluorophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-(2,3,4-trifluorophenyl)methyl|-5-carbamoylcarbazol-4-yl}oxyacetic acid.
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          9-[(2,3.5-trifluorophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2.3 6-trifluorophenyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid.
          9-[(2,45-trifluorophenyi)methyi]-5-carbamoylcarbazol-4-yi]oxyacetic acid.
          9-(2 4,6-trifluorophenyl)methyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
          9-[(3.4.5-trifluorophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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          9-[(pentafluorophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2.3-dichlorophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2.4-dichlorophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2.5-dichlorophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2.6-dichlorophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid,
35
          9-[(3,4-dichlorophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3.5-dichlorophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2,3-dimethylphenyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid
          9-[(2,4-dimethylphenyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid
          9-[(2.5-dimethylphenyl)methyl]-5-carbamoylcarbazol-4-ylloxyacetic acid.
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          9-[(2.6-dimethylphenyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid.
          9-[(3.4-dimethylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3.5-dimethylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2,4.6-trimethylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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          9-[(3.5-bis(trifluoromethyl)phenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2.4-bis(trifluoromethyl)phenyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid:
          9-[(2-fluoro-3-trifluoromethylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2-fluoro-4-trifluoromethylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-fluoro-5-trifluoromethylphenyl) methyl]-5-carbamoylcarbazol-4-yl\oxyacetic acid.
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          9-[(2-fluoro-6-trifluoromethylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3-fluoro-5-trifluoromethylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(4-fluoro-2-trifluoromethylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(4-fluoro-3-triffuoromethylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid;
          9-[3-(2-fluorophenoxy)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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          9-(3-(4-fluorophenoxy)methyl]-5-carbamoylcarbaz I-4-yl]oxyacetic acid;
          9-I(2-fluoro-3-methylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3-cht_ro-2-fluorophenyt)methyt]-5-carbamoylcarbazol-4-yt]oxyacetic acid:
          9-[(2-chloro-6-fluorophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyac tic acid;
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9-[(4-bromo-2-fluorophenyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid.
          9-[(2-bromo-5-fluorophenyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid.
          9-[(3-chloro-4-methylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid-
          9-[(3-chloro-4-methoxyphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid.
 5
          9-[14-methoxy-3-methylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid,
          9-[14-trifluoromethylthiophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[i1-bromo-2-naphthylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2-methyl-1-naphthylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(4-methyl-1-naphthylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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          9-[(6-methyl-2-naphthylphenyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid
          9-[(2-((phenylsulfonyl)methyl)phenyl)methyl)-5-carbamovicarbazol-4-vi)oxyacetic acid
          9-[11-fluorenylmethyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(1-tetrazolylmethyi]-5-carbamoylcarbazol-4-yi]oxyacetic acid
          9-[15-methyl-l-tetrazolylmethyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(5-benzyl-1-tetrazolylmethyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid:
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          9-[iphenyl]methyl]-2-methyl-5-carbamovicarbazol-4-vl]oxyacetic acid:
          9-[(2-phenoxyphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl}oxyacetic acid
          9-[i3-phenoxyphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid,
          9-[i4-phenoxyphenyl]methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid,
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          9-[(2-fluorophenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[i3-fluorophenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-vl}oxyacetic acid:
          9-[i4-fluorophenyi]methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[i2-chlorophenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[13-chlorophenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl}oxyacetic acid
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          9-[(4-chlorophenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-vi}oxyacetic acid
          9-[(2-bromophenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3-bromophenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(4-bromophenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[i2-iodophenyl]methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
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          9-[i3-iodophenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;
          9-[(4-iodophenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2-acetamidophenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-{(3-acetamidophenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl}oxyacetic acid
          9-[(4-acetamidophenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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          9-[12-carbamoylphenyl]methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[i3-carbamoylphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(4-carbamoylphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl}oxyacetic acid
          9-[i2-methylsulfonylphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3-methylsulfonylphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;
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          9-[(4-methylsulfonylphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2-methylphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[i3-methylphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[14-methylphenyl)methyl]-2-methyl-5-carbamovicarbazol-4-viloxyacetic acid
          9-[(2-ethylphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
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          9-[(3-ethylphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(4-ethylphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2-trifluoromethylphenyl)methyl]-2-methyl-5-carbamovlcarbazol-4-yl]oxyacetic acid
         9-[(3-trifluoromethylphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
         9-[(4-trifluoromethylphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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         9-[(cyclopropyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
         9-[(cyclobutyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid,
         9-(cyclopentyl)methyl]-2-methyl-5-carbamovlcarbazol-4-vlloxvacetic acid:
         9-[icyclohexyl]methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.:
         9-[(2-methoxyphenyi)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid,
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         9-[(3-methoxyphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
         9-[(4-methoxyphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid,
         9-[12-ethoxyphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
         9-[(3-ethoxyphenyl)methyl]-2-methyl-5-carbam ylcarbazol-4-yl]oxyac tic acid.
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9-[i4-ethoxyphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[(2-trifluoromethoxyphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
           9-[(3-trifluoromethoxyphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
           9-[(4-trifluoromethoxyphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(2-difluoromethoxyphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl}oxyacatic acid:
           9-[(3-difluoromethoxyphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(4-difluoromethoxyphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
           9-[(2-cyanophenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(3-cyanophenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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           9-[(4-cyanophenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-vl]oxyacetic acid:
           9-[(2-pyridyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid-
           9-[(3-pyridyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(4-pyridyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(2-furyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl}oxyacetic acid
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          9-[(3-furyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[12-thienyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(3-thienyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
           9-[(2-benzylphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(3-benzylphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl}oxyacetic acid.
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          9-[(4-benzylphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-benzoylphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-ylloxyacetic acid:
          9-[i3-benzoylphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl}oxyacetic acid.
          9-[(4-benzoylphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl)oxyacetic acid:
          9-[(2-benzyloxyphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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          9-[i3-benzyloxyphenyi]methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(4-benzyloxyphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yljoxyacetic acid.
          9-[(2-phenylphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3-phenylphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(4-phenylphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
30
          9-[(1-naphthyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;
          9-[(2-naphthyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl}oxyacetic acid;
          9-[(2.3-difluorophenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl}oxyacetic acid:
          9-[(2 4-difluorophenyl)methyl]-2-methyl 5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2.5-difluorophenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid,
35
          9-[(2.6-difluorophenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3,4-difluorophenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3.5-difluorophenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2,3,4-trifluorophenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl)oxyacetic acid
          9-[(2,3.5-trifluorophenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;
          9-[(2.3,6-trifluorophenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;
          9-[(2.4.5-trifluorophenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;
          9-[(2.4 6-trifluorophenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl)oxyacetic acid.
          9-[13.4,5-trifluorophenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;
          9-{(pentafluorophenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl}oxyacetic acid;
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          9-[(2.3-dichlorophenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2,4-dichlorophenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2,5-dichlorophenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2,6-dichlorophenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3,4-dichlorophenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
50
          9-[(3,5-dichlorophenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2,3-dimethylphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
         9-[(2 4-dimethylphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
         9-[(2 5-dimethylphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-{(2,6-dimethylphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
55
          9-[(3,4-dimethylphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl}oxyacetic acid.
         9-{(3.5-dimethylphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl} xyacetic acid;
         9-{(2,4,6-trimethylphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl} xyacetic acid:
         9- [(3.5-bis(triflu_romethyl)phenyl)m_thyl]-2-methyl-5-carbamoylcarbaz_l-4-yl]oxyac_tic acid.
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9-((2.4-bis(trifluoromethyl)phenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[12-fluoro-3-trifluoromethylphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-fluoro-4-trifluoromethylphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2-fluoro-5-trifluoromethylphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(2-fluoro-6-trifluoromethylphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(3-fluoro-5-trifluoromethylphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl)oxyacetic acid:
          9-[(4-fluoro-2-trifluoromethylphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[i4-fluoro-3-trifluoromethylphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[3-(2-fluorophenoxy)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[3-(4-fluorophenoxy)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
10
          9-[(2-fluoro-3-methylphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(3-chloro-2-fluorophenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl|oxyacetic acid
          9-[(2-chloro-6-fluorophenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(4-bromo-2-fluorophenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-bromo-5-fluorophenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
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          9-[(3-chloro-4-methylphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3-chloro-4-methoxyphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(4-methoxy-3-methylphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(4-trifluoromethylthiophenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[11-bromo-2-naphthylphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl/oxyacetic acid
20
          9-[(2-methyl-l-naphthylphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[14-methyl-1-naphthylphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[i6-methyl-2-naphthylphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[i2-((phenylsulfonyl)methyl)phenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(1-fluorenylmethyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
25
          9-[(1-tetrazolylmethyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(5-methyl-1-tetrazolylmethyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(5-benzyl-1-tetrazolylmethyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(phenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
30
          9-[(2-phenoxyphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3-phenoxyphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(4-phenoxyphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl}oxyacetic acid;
          9-[(2-fluorophenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(3-fluorophenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(4-fluorophenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
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          9-[(2-chlorophenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl|oxyacetic acid:
          9-[(3-chlorophenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl|oxyacetic acid.
          9-{(4-chlorophenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[12-bromophenyl]methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[13-bromophenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl|oxyacetic acid.
          9-[14-bromophenyl]rnethyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-iodophenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl)oxyacetic acid,
           9-[(3-iodophenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[14-iodophenyl]methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2-acetamidophenyi)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
45
          9-[(3-acetamidophenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
           9-[(4-acetamidophenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[12-carbamoylphenyl]methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(3-carbamoylphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
           9-[i4-carbamoylphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyscetic acid.
50
           9-[(2-methylsulfonylphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[13-methylsulfonylphenyl)methyl] -2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(4-methylsulfonylphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(2-methylphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl)oxyacetic acid:
           9-[(3-methylphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
55
           9-[14-methylphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl}oxyacetic acid:
           9-[12-ethylphenyl]methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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9-[13- thylph nyl]methyl]-2-ethyl-5-carbamoylcarbaz 1-4-yl]oxyacetic acid.

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9-[(4-ethylphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
            9-[(2-trifluoromethylphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl|oxyacetic acid.
            9-[i3-trifluoromethylphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-ylljoxyacetic acid;
           9-[(4-Influoromethylphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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           9-[rcyclopropyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl}oxyacetic acid:
           9-[(cyclobutyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[(cyclopentyl)methyl[-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[(cyclohexyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;
           9-[(2-methoxyphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;
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           9-[(3-methoxyphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;
           9-[14-methoxyphenyl]methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;
           9-[i2-ethoxyphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(3-ethoxyphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;
           9-[(4-ethoxyphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
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           9-[(2-Influoromethoxyphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(3-trifluoromethoxyphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(4-trifluoromethoxyphenyl)methyl]-2-ethyl-5-carbarnoylcarbazol-4-yl]oxyacetic acid.
           9-[12-difluoromethoxyphenyl]methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[13-difluoromethoxyphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl|oxyacetic acid
20
           9-[14-difluoromethoxyphenyl]methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[12-cyanophenyl]methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[(3-cyanophenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(4-cyanophenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(2-pyridyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-vlloxvacetic acid:
25
           9-[(3-pyridyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;
           9-[14-pyridyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[(2-furyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[(3-furyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;
           9-[(2-thienyl)methyl]-2-ethyl-5-carbamovlcarbazol-4-vlloxvacetic acid.
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           9-{(3-thienyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(2-benzylphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
           9-[(3-benzylphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(4-benzylphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yljoxyacetic acid.
           9-[i2-benzoylphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-vl}oxyacetic acid:
35
           9-[(3-benzoylphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-{(4-benzoylphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;
           9-[12-benzyloxyphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(3-benzyloxyphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-ylloxyacetic acid:
          9-[(4-benzyloxyphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl|oxyacetic acid.
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          9-{(2-pherrylphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl|oxyacetic acid;
          9-[(3-phenylphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;
          9-[(4-phenylphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;
          9-[(1-naphthyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[12-naphthyl]methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
45
          9-[(2.3-difluorophenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2.4-difluorophenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;
          9-[(2.5-difluorophenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;
          9-[(2,6-difluorophenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;
          9-[(3,4-difluorophenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;
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          9-[(3,5-diffucrophenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2,3,4-trifluorophenyi)methyi]-2-ethyl-5-carbamoylcarbazol-4-vi)oxyacetic acid:
          9-[(2,3,5-trifluorophenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;
          9-[(2,3.6-trifluorophenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl}oxyacetic acid;
          9-[(2,4,5-trifluorophenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl}oxyacetic acid;
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          9-[(2.4,6-trifluorophenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl}oxyacetic acid:
          9-[(3,4.5-Influorophenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-{(pentafluorophenyl)methyl]-2-ethyl-5-carbamoylcarbaz | -4-yl}oxyacetic acid:
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9-{(2,3-dichlorophenyl)methyl}-2-ethyl-5-carbamoylcarbaz |-4-yl|oxyacetic acid;

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9-[(2.4-dichlorophenyl)m thyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyac tic acid.
           9-[(2.5-dichlorophenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(2.6-dichlorophenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[13.4-dichlorophenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid,
 5
           9-[(3,5-dichlorophenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl}oxyacetic acid.
           9-[(2.3-dimethylphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl)oxyacetic acid
           9-[i2.4-dimethylphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl}oxyacetic acid
           9-[(2.5-dimethylphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
           9-[i2.6-dimethylphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
 10
           9-[13,4-dimethylphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl}oxyacetic acid
           9-[(3.5-dimethylphenyl)methyll-2-ethyl-5-carbamoylcarbazol-4-vlloxyacetic acid
           9-[(2.4.6-trimethylphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl}oxyacetic acid-
           9-[(3.5-bis(trifluoromethyl)phenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(2.4-bis(trifluoromethyl)phenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(2-fluoro-3-trifluoromethylphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl}oxyacetic acid.
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           9-[(2-fluoro-4-trifluoromethylphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[(2-fluoro-5-trifluoromethylphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-vl}oxyacetic acid-
           9-[i2-fluoro-6-trifluoromethylphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid,
           9-[(3-fluoro-5-trifluoromethylphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
           9-[(4-fluoro-2-trifluoromethylphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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           9-[i4-fluoro-3-trrfluoromethylphenyl]methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[3-(2-fluorophenoxy)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl)oxyacetic acid.
           9-[3-(4-fluorophenoxy)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(2-fluoro-3-methylphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl}oxyacetic acid.
25
           9-[(3-chloro-2-fluorophenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
           9-[(2-chloro-6-fluorophenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-vl]oxyacetic acid
           9-[(4-bromo-2-fluorophenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(2-bromo-5-fluorophenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(3-chloro-4-methylphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
30
           9-{(3-chloro-4-methoxyphenyl)methyl}-2-ethyl-5-carbamoylcarbazol-4-yl}oxyacetic acid.
           9-[(4-methoxy-3-methylphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl}oxyacetic acid
           9-[14-trifluoromethylthiophenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(1-bromo-2-naphthylphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(2-methyl-1-naphthylphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
35
           9-[(4-methyl-1-naphthylphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(6-methyl-2-naphthylphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(2-((phenylsulfonyl)methyl)phenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(1-fluorenylmethyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[11-tetrazolylmethyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
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          9-[(5-methyl-1-tetrazolylmethyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(5-benzyl-1-tetrazolylmethyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(phenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2-phenoxyphenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3-phenoxyphenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl)oxyacetic acid.
45
          9-[(4-phenoxyphenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(2-fluorophenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl}oxyacetic acid:
          9-[(3-fluorophenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl}oxyacetic acid:
          9-[(4-fluorophenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-vl}oxvacetic acid:
          9-[(2-chlorophenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
50
          9-[i3-chlorophenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[14-chlorophenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2-bromophenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-ylloxyacetic acid-
          9-[(3-bromophenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl}oxyacetic acid:
          9-[14-bromophenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
55
          9-[(2-iodophenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl}oxyacetic acid:
          9-[(3-iodophenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(4-iodophenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2-acetamidophenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
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9-[(3-acetamidophenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyac tic acid;
          9-[(4-acetamidophenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-carbamoylphenyi)methyi]-2-propyl-5-carbamoylcarbazol-4-yi)oxyacetic acid:
          9-[(3-carbamoylphenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(4-carbamoylphenyt)methyt]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2-methylsulfonylphenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(3-methylsulfonylphenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;
          9-[(4-methylsulfonylphenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;
          9-[(2-methylphenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
10
          9-[(3-methylphenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(4-methylphenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-ylloxyacetic acid:
          9-[t2-ethylphenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(3-ethylphenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(4-ethylphenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
15
          9-[(2-trifluoromethylphenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(3-trifluoromethylphenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(4-trifluoromethylphenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-(icyclopropyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl}oxyacetic acid:
          9-[rcyclobutyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
20
          9-[(cyclopentyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(cyclohexyl)methyl]-2-propyl-5-carbamovlcarbazol-4-yl]oxyacetic acid.
          9-[(2-methoxyphenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3-methoxyphenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl}oxyacetic acid;
          9-[(4-methoxyphenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
25
          9-[(2-ethoxyphenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3-ethoxyphenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(4-ethoxyphenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-trifluoromethoxyphenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl}oxyacetic acid.
          9-[(3-trifluoromethoxyphenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl}oxyacetic acid.
30
          9-[(4-trifluoromethoxyphenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-difluoromethoxyphenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(3-difluoromethoxyphenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;
          9-[(4-difluoromethoxyphenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2-cyanophenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
35
          9-[(3-cyanophenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl}oxyacetic acid.
          9-[(4-cyanophenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-pyridyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid-
          9-[(3-pyridyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl)oxyacetic acid:
          9-[(4-pyridyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
40
          9-[(2-furyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(3-furyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;
          9-[(2-thienyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid,
          9-[(3-thienyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl}oxyacetic acid:
          9-[(2-benzylphenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl}oxyacetic acid;
45
          9-[(3-benzylphenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(4-benzylphenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2-benzoylphenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3-benzoylphenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(4-benzoylphenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
50
          9-{(2-benzyloxyphenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;
          9-[(3-benzyloxyphenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;
          9-[(4-benzyloxyphenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-phenylphenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl}oxyacetic acid:
          9-[(3-phenylphenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
55
          9-[(4-phenylphenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(1-naphthyl)m thyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;
          9-[(2-naphthyl)m thyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2,3-difluorophenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;
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9-{(2,4-diffuorophenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl}oxyacetic acid:
          9-[(2.5-difluorophenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[i2 6-difluorophenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(3 4-difluorophenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-{(3.5-difluorophenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid,
5
          9-[(2.3.4-trifluorophenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2.3 5-trifluorophenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2 3 6-trifluorophenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(2 4.5-trifluorophenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2,4,6-trifluorophenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
10
          9-[(3.4.5-trifluorophenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl)oxyacetic acid
          9-[(pentafluorophenyi)methyl]-2-propyi-5-carbamoylcarbazol-4-yl}oxyacetic acid:
          9-[12 3-dichlorophenyl]methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2 4-dichlorophenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(2 5-dichlorophenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
15
          9-[(2,6-dichlorophenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3 4-dichlorophenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9\hbox{-}[(3\,5\hbox{-}dichlorophenyl] methyl]\hbox{-}2\hbox{-}propyl\hbox{-}5\hbox{-}carbamoylcarbazol\hbox{-}4\hbox{-}yl] oxyacetic acid:
          9-[(2.3-dimethylphenyl)methyl]-2-propyl4-yl]oxyacetic acid.
20
          9-[(2 4-dimethylphenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-{(2 5-dimethylphenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl}oxyacetic acid.
          9-[(2 6-dimethylphenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(3 4-dimethylphenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3 5-dimethylphenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(2 4 6-trimethylphenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
25
          9-[(3 5-bis(trifluoromethyl)phenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2.4-bis(trifluoromethyl)phenyl)methyl]-2-propyl-5-carbamoyicarbazol-4-yl]oxyacetic acid:
          9-[(2-fluoro-3-trifluoromethylphenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(2-fluoro-4-trifluoromethylphenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9\hbox{-}[(2\hbox{-}fluoro\hbox{-}5\hbox{-}trifluoromethylphenyl)] methyl]\hbox{-}2\hbox{-}propyl\hbox{-}5\hbox{-}carbamoylcarbazol\hbox{-}4\hbox{-}yl]oxyacetic acid.
30
          9-[(2-fluoro-6-trifluoromethylphenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(3-fluoro-5-trifluoromethylphenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[i4-fluoro-2-trifluoromethylphenyl]methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(4-fluoro-3-trifluoromethylphenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacotic acid
          9-[3-(2-fluorophenoxy)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
35
           9-[3-(4-fluorophenoxy)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(2-fluoro-3-methylphenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl[oxyacetic acid
           9-[(3-chloro-2-fluorophenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
           9-[(2-chloro-6-fluorophenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[14-bromo-2-fluorophenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
40
          9-[(2-bromo-5-fluorophenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
           9-[(3-chloro-4-methylphenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl|oxyacetic acid.
           9-[(3-chloro-4-methoxyphenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl|oxyacetic acid.
           9-[(4-methoxy-3-methylphenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
           9-[(4-trifluoromethylthiophenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
45
           9-[(1-bromo-2-naphthylphenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl|oxyacelic acid
           9-[12-methyl-1-naphthylphenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
           9-[14-methyl-1-naphthylphenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl|oxyacetic acid
           9-[(6-methyl-2-naphthylphenyl)methyl]-2-propyl-5-carbamoylcarbazol-4-yl[oxyacetic acid
           9-[(2-((phenyisulfonyi)methyi)phenyi)methyi]-2-propyi-5-carbamoyicarbazol-4-yi]oxyacetic acid.
50
           9-[(1-fluorenylmethyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid,
           9-[(1-tetrazolylmethyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(5-methyl-1-tetrazolylmathyl]-2-propyl-5-carbamoylcarbazol-4-yl}oxyacetic acid:
           9-[(5-benzyl-1-tetrazolylmethyl]-2-propyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
55
           9-[(phenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
           9-[(2-phen_xyphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl}oxyacetic acid.
           9-[(3-phenoxyphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[(4-phenoxyph_nyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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9-[(2-fluorophenyl)m thyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3-fluorophenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(4-fluorophenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl|oxyacetic acid-
          9-[(2-chlorophenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
5
          9-[(3-chlorophenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(4-chlorophenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-bromophenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(3-bromophenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(4-bromophenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-iodophenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
10
          9-(13-iodophenyl)methyl)-2-isopropyl-5-carbamoylcarbazol-4-yl)oxyacetic acid.
          9-[14-lodophenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-acetamidophenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(3-acetamidophenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
15
          9-[(4-acetamidophenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2-carbamoylphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl}oxyacetic acid:
          9-[(3-carbamoylphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;
          9-[(4-carbamoylphenyi)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2-methylsulfonylphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl}oxyacetic acid.
20
          9-[(3-methylsulfonylphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;
          9-[(4-methylsulfonylphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-methylphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl)oxyacetic acid:
          9-[(3-methylphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(4-methylphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
25
          9-[(2-ethylphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(3-ethylphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;
          9-[(4-ethylphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-{(2-trifluoromethylphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl}oxyacetic acid.
          9-[(3-trifluoromethylphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(4-tnfluoromethylphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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          9-f(cyclopropyl)methyll-2-isopropyl-5-carbamoylcarbazol-4-ylloxyacetic acid:
          9-[(cyclobutyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(cyclopentyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl)oxyacetic acid.
          9-[(cyclohexyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;
35
          9-[(2-methoxyphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3-methoxyphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;
          9-[(4-methoxyphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2-ethoxyphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(3-ethoxyphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
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          9-[(4-ethoxyphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[12-trifluoromethoxyphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(3-trifluoromethoxyphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(4-trifluoromethoxyphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl}oxyacetic acid:
          9-[(2-difluoromethoxyphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
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          9-[(3-difluoromethoxyphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(4-diffuoromethoxyphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl}oxyacetic acid.
          9-[(2-cyanophenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3-cyanophenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;
          9-[(4-cyanophenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid,
50
          9-[(2-pyridyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3-pyridyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(4-pyridyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-furyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;
          9-[(3-furyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;
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          9-f(2-thienyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl}oxyacetic acid.
          9-[(3-thienyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-benzylphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(3-benzylphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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9-((4-benzylphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
            9-[(2-benzoylphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
            9-[(3-benzoylphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl|oxyacetic acid
            9-[(4-benzoylphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
            9-[(2-benzyloxyphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
            9-[i3-benzyloxyphenyl]methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
            9-[(4-benzyloxyphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[(2-phenylphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid,
           9-{(3-phenylphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yljoxyacetic acid:
           9-[14-phenylphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yljoxyacetic acid
 10
           9-[(1-naphthyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl)oxyacetic acid
           9-[(2-naphthyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(2 3-difluorophenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[(2.4-difluorophenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
 15
           9-{(2 5-difluorophenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
           9-{(2 6-difluorophenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl}oxyacetic acid.
           9-[i3 4-difluorophenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[13 5-difluorophenyl]methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[(2 3 4-trifluorophenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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           9-[(2 3.5-trifluorophenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
           9-[i2 3.6-trifluorophenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
           9-{(2 4 5-trifluorophenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl}oxyacetic acid
           9-[(2 4.6-triflucrophenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl|oxyacetic acid
           9-[(3.4 5-trifluorophenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl}oxyacetic acid
 25
           9-(pentafluorophenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(2.3-dichlorophenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
           9-[(2 4-dichlorophenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[(2,5-dichlorophenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[(2 6-dichlorophenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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           9-[(3 4-dichlorophenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(3.5-dichlorophenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2.3-dimethylphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2.4-dimethylphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid-
          9-[(2.5-dimethylphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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          9-[(2.6-dimethylphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3.4-dimethylphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl}oxyacetic acid.
          9-[(3 5-dimethylphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2,4 6-trimethylphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(3,5-bis(trifluoromethyl)phenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
40
          9-[i2 4-bis(trifluoromethyl)phenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[i2-fluoro-3-trifluoromethylphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[[2-fluoro-4-trifluoromethylphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-fluoro-5-trifluoromethylphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-fluoro-6-trifluoromethylphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
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          9-[(3-fluoro-5-trifluoromethylphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yljoxyacetic acid
          9-[(4-fluoro-2-trifluoromethylphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(4-fluoro-3-trifluoromethylphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[3-(2-fluorophenoxy)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid-
          9-[3-(4-fluorophenoxy)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
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          9-[(2-fluoro-3-methylphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(3-chloro-2-fluorophenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-chloro-6-fluorophenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-{(4-bromo-2-fluorophenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacelic acid
          9-[12-bromo-5-fluorophenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
55
          9-[(3-chloro-4-methylphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-((3-chloro-4-methoxyphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[14-methoxy-3-methylphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(4-trifluorom_thylthiophenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yljoxyacetic acid.
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9-[(1-bromo-2-naphthylphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyac tic acid.
            9-[(2-methyl-1-naphthylphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid,
            9-[14-methyl-1-naphthylphenyl]methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;
            9-[(6-methyl-2-naphthylphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid,
  5
            9-[(2-((phenylsulfonyl)methyl)phenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl}oxyacetic acid.
            9-[(1-fluorenylmethyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
            9-[(1-tetrazolylmethyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
            9-[15-methyl-1-tetrazolylmethyl]-2-isopropyl-5-carbamoylcarbazol-4-yl|oxyacetic acid.
            9-[(5-benzyl-1-tetrazolylmethyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
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            9-[(phenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
            9-[(2-phenoxyphenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl}oxyacetic acid-
            9-[(3-phenoxyphenyi)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
            9-[(4-phenoxyphenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl}oxyacetic acid,
            9-[(2-fluorophenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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            9-[13-fluorophenyl]methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
            9-[i4-fluorophenyl]methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
            9-[(2-chlorophenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
            9-[(3-chlorophenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yljoxyacetic acid:
            9-[(4-chlorophenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
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            9-[(2-bromophenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
            9-[(3-bromophenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
            9-[14-bromophenyi]methyi]-2-n-butyi-5-carbamoylcarbazol-4-yi]oxyacetic acid.
            9-[(2-iodophenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl|oxyacetic acid.
           9-[(3-iodophenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yljoxyacetic acid,
 25
           9-[14-iodophenyl]methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl[oxyacetic acid.
           9-[(2-acetamidophenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[(3-acetamidophenyi)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[(4-acetamidophenyi)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(2-carbamoylphenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl}oxyacetic acid
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           9-[(3-carbamoylphenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
           9-[(4-carbamoylphenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[(2-methylsulfonylphenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(3-methylsulfonylphenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[(4-methylsulfonylphenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
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           9-[(2-methylphenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl)oxyacetic acid.
           9-[(3-methylphenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
           9-[(4-methylphenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(2-ethylphenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(3-ethylphenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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           9-[(4-ethylphenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[(2-trifluoromethylphenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl}oxyacetic acid;
           9-{(3-trifluoromethylphenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;
          9-[(4-trifluoromethylphenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid,
          9-[(cyclopropyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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          9-[icyclobutyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(cyclopentyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(cyclohexyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[i2-methoxyphenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[i3-methoxyphenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;
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          9-[(4-methoxyphenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl}oxyacetic acid.
          9-[(2-ethoxyphenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(3-ethoxyphenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(4-ethoxyphenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2-trifluoromethoxyphenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl)oxyacetic acid:
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          9-[(3-trifluoromethoxyphenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl)oxyacetic acid:
          9-[(4-trifluoromethoxyphenyl)m thyl]-2-n-butyl-5-carbamoylcarbaz I-4-yl|oxyacetic acid.
          9-[(2-difluoromethoxyphenyl)methyl]-2-n-butyl-5-carbamoylcarbaz I-4-yl}oxyacetic acid.
          9-[(3-diffuoromethoxyphenyl)methyl]-2-n-butyl-5-carbamoylcarbaz 1-4-yl]oxyacetic acid.
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9-[(4-difluoromethoxyphenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
           9-[12-cyanophenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(3-cyanophenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
           9-[(4-cyanophenylimethyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
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           9-[(2-pyridyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[(3-pyridyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[(4-pyridyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[12-furyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3-furyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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          9-(2-thienyl)methyl)-2-n-butyl-5-carbamovicarbazol-4-viloxyacetic acid-
          9-[(3-thienyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-benzylphenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3-benzylphenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;
          9-[i4-benzylphenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
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          9-[i2-benzovlphenyi)methyll-2-n-butyl-5-carbamoylcarbazol-4-vlloxyacetic acid
          9-[(3-benzoylphenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(4-benzoylphenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(2-benzyloxyphenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(3-benzyloxyphenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
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          9-[(4-benzyloxyphenyl)methyl)-2-n-butyl-5-carbamoylcarbazol-4-ylloxyacetic acid:
          9-[(2-phenylphenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl}oxyacetic acid:
          9-[(3-phenylphenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(4-phenylphenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(1-naphthyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
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          9-((2-naphthyl)methyl)-2-n-butyl-5-carbamoyicarbazol-4-ylloxyacetic acid;
          9-(12 3-difluorophenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl)oxyacetic acid.
          9-[(2 4-difluorophenyl)methyl]-2-n-butyl-5-carbamoyicarbazol-4-yl)oxyacetic acid.
          9-[(2.5-difluorophenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2.6-difluorophenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl)oxyacetic acid.
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          9-[(3.4-difluorophenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl}oxyacetic acid
          9-[(3 5-difluorophenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl}oxyacetic acid:
          9-[(2.3.4-trifluorophenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2.3.5-trifluorophenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl}oxyacetic acid.
          9-[(2.3 6-trifluorophenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
35
          9-[(2 4 5-trifluorophenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl}oxyacetic acid:
          9-{(2.4.6-trifluorophenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(3 4 5-trifluorophenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-lipentafluorophenyi)methyll-2-n-butyl-5-carbamoylcarbazol-4-viloxyacetic acid
          9-[(2.3-dichlorophenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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          9-[12.4-dichlorophenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid-
          9-[(2,5-dichlorophenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yi]oxyacetic acid:
          9-[12,6-dichlorophenyl)methyl]-2-n-butyl-5-carbamovlcarbazol-4-vlloxyacetic acid
          9-[(3,4-dichlorophenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[i3 5-dichlorophenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
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          9-[(2,3-dimethylphenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid-
          9-[12.4-dimethylphenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl}oxyacetic acid
          9-[(2.5-dimethylphenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl}oxyacetic acid.
          9-[(2.6-dimethylphenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3,4-dimethylphenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
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          9-[(3.5-dimethylphenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2.4.6-trimethylphenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[13.5-bis(trifluoromethyl)phenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid,
          9-[i2.4-bis(trifluoromethyl)phenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-fluoro-3-trifluoromethylphenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
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          9-[(2-fluoro-4-trifluoromethylphenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2-fluoro-5-triflu romethylphenyl)m thyl]-2-n-butyl-5-carbamoylcarbazol-4-ylloxyacetic acid.
          9-{(2-fluoro-6-trifluoromethylphenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3-fluoro-5-trifluoromethylphenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;
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9-[(4-fluoro-2-trifluoromethylphenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(4-fluoro-3-trifluoromethylphenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[3-(2-fluorophenoxy)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[3-(4-fluorophenoxy)methyl]-2-n-butyl-5-carbamovicarbazol-4-vlloxyacetic acid.
           9-[(2-fluoro-3-methylphenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl}oxyacetic acid.
           9-[(3-chloro-2-fluorophenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[(2-chloro-6-fluorophenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[(4-bromo-2-fluorophenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(2-bromo-5-fluorophenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl}oxyacetic acid:
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           9-[(3-chloro-4-methylphenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-ylloxyacetic acid;
           9-[(3-chloro-4-methoxyphenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl}oxyacetic acid.
           9-[14-methoxy-3-methylphenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[14-trifluoromethylthiophenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid,
           9-[(1-bromo-2-naphthylphenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl}oxyacetic acid.
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           9-[(2-methyl-1-naphthylphenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl\pxyacetic acid.
           9-[(4-methyl-1-naphthylphenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl}oxyacetic acid.
           9-[(6-methyl-2-naphthylphenyl)methyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(2-((phenylsulfonyl)methyl)phenyl)methyl)-2-n-butyl-5-carbamoylcarbazol-4-yl[oxyacetic acid.
           9-[(1-fluorenylmethyl]-2-n-butyl-5-carbamovlcarbazol-4-v]]oxyacetic acid.
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           9-[(1-tetrazolylmethyl)-2-n-butyl-5-carbamoylcarbazol-4-yl)oxyacetic acid.
           9-[15-methyl-1-tetrazolylmethyl]-2-n-butyl-5-carbamoylcarbazol-4-yl}oxyacetic acid:
           9-[(5-benzyl-1-tetrazolylmethyl]-2-n-butyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(2-phenoxyphenyl)methyl]-2-n-pentyl-5-carbamoyicarbazol-4-yl]oxyacetic acid.
           9-[(3-phenoxyphenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl|oxyacetic acid.
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           9-[(4-phenoxyphenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl|oxyacetic acid:
           9-[(2-fluorophenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl)oxyacetic acid.
           9-[(3-fluorophenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl)oxyacetic acid:
           9-[(4-fluorophenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl)oxyacetic acid.
           9-[(2-chlorophenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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           9-[(3-chlorophenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
           9-[(4-chlorophenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(2-bromophenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[(3-bromophenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
           9-[(4-bromophenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
$5
           9-[(2-iodophenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl}oxyacetic acid.
           9-[(3-iodophenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl}oxyacetic acid.
           9-[14-iodophenyl)methyl]-2-n-pentyl-5-carbamovicarbazol-4-vi}oxyacetic acid.
          9-[(2-acetamidophenyl)methyl]-2-n-pentyl-5-carbamovicarbazol-4-vlloxyacetic acid
          9-[(3-acetamidophenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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          9-[(4-acetamidophenyi)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;
          9-[(2-carbamoylphenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3-carbamoylphenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(4-carbamoylphenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl}oxyacetic acid.
          9-[(2-methylsulfonylphenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
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          9-[i3-methylsulfonylphenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(4-methylsulfonylphenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-methylphenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3-methylphenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(4-methylphenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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          9-[(2-ethylphenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(3-ethylphenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(4-ethylphenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2-trifluoromethylphenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid,
          9-[(3-trifluoromethylphenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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          9-[(4-trifluoromethylphenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-(icyclopropyi)methyi]-2-n-pentyi-5-carbamoylcarbazol-4-yi]oxyacetic acid.
          9-(icyclobutyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl}oxyacetic acid.
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9-((cyclopentyl)methyl)-2-n-pentyl-5-carbamoylcarbazol-4-yl)oxyacetic acid:

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9-[(cyclohexyl)methyl]-2-n-pentyl-5-carbamoylcarbaz I-4-yl]oxyacetic acid
         9-[(2-methoxyphenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
         9-[(3-methoxyphenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
         9-[(4-methoxyphenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
         9-[(2-ethoxyphenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
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          9-[(3-othoxyphenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid-
         9-[(4-ethoxyphenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
         9-[(2-trifluoromethoxyphenyi)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
         9-[(3-trrfluoromethoxyphenyi)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
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         9-[(4-trifluoromethoxyphenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
         9-[(2-difluoromethoxyphenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
         9-[(3-difluoromethoxyphenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid-
         9-[(4-difluoromethoxyphenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[i2-cyanophenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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          9-[(3-cyanophenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[i4-cyanophenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl}oxyacetic acid.
         9-[i2-pyridyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl}oxyacetic acid
          9-[(3-pyridyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(4-pyridyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
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          9-[(2-furyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-ylloxyacetic acid
          9-[(3-furyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(2-thienyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3-thienyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-benzylphenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(3-benzylphenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
25
          9-[14-benzylphenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2-benzoylphenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3-benzoylphenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(4-benzoylphenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
30
          9-[(2-benzyloxyphenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3-benzyloxyphenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(4-benzyloxyphenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-phenylphenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(3-phenylphenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
35
          9-[(4-phenylphenyl)methyl)-2-n-pentyl-5-carbamoylcarbazol-4-yl}oxyacetic acid:
          9-[(1-naphthyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-naphthyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[12.3-difluorophenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[12 4-difluorophenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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          9-[(2 5-difluorophenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[12 6-difluorophenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(3 4-difluorophenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(3 5-difluorophenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2 3.4-trifluorophenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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          9-[(2 3 5-trifluorophenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid-
          9-[(2 3.6-trifluorophenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[12 4 5-trifluorophenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2 4 6-trifluorophenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3 4.5-trifluorophenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
50
          9-[rpentafluorophenyl]methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2 3-dichlorophenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2,4-dichlorophenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-{(2.5-dichlorophenyl)methyl}-2-n-pentyl-5-carbamoylcarbazol-4-yl}oxyacetic acid;
          9-[(2.6-dichlorophenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[13 4-dichlorophenyl]methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
55
          9-[(3.5-dichlorophenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2.3-dimethylphenyl)methyl]-2-n-p ntyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;
          9-[(2.4-dimethylphenyi)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
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9-[(2,5-dimethylphenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[12,6-dimethylphenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3,4-dimethylphenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3,5-dimethylphenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
5
          9-[(2.4.6-trimethylphenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3,5-bis(trifluoromethyl)phenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2.4-bis(trifluoromethyl)phenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-{(2-fluoro-3-trifluoromethylphenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-fluoro-4-trifluoromethylphenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
10
          9-[(2-fluoro-5-trifluoromethylphenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[12-fluoro-6-trifluoromethylphenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(3-fluoro-5-trifluoromethylphenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[14-fluoro-2-trifluoromethylphenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[14-fluoro-3-trifluoromethylphenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
15
          9-[3-(2-fluorophenoxy)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl}oxyacetic acid.
          9-[3-(4-fluorophenoxy)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-{i2-fluoro-3-methylphenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl}oxyacetic acid
          9-[(3-chloro-2-fluorophenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[12-chloro-6-fluorophenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
20
          9-[14-bromo-2-fluorophenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2-bromo-5-fluorophenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-((3-chloro-4-methylphenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(3-chloro-4-methoxyphenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(4-methoxy-3-methylphenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
25
          9-[(4-trifluoromethylthiophenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(1-bromo-2-naphthylphenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-methyl-1-naphthylphenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(4-methyl-l-naphthylphenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(6-methyl-2-naphthylphenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
30
          9-[(2-((phenylsulfonyl)methyl)phenyl)methyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(1-fluorenylmethyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;
          9-[(1-tetrazolylmethyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;
          9-[(5-methyl-1-tetrazolylmethyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl|oxyacetic acid.
          9-[(5-benzyl-1-tetrazolylmethyl]-2-n-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
35
          9-[(phenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(2-phenoxyphenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3-phenoxyphenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[i4-phenoxyphenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-fluorophenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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          9-[(3-fluorophenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[14-fluorophenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;
          9-[(2-chlorophenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(3-chlorophenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(4-chlorophenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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          9-[(2-bromophenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(3-bromophenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid,
          9-[(4-bromophenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;
          9-{(2-iodophenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl}oxyacetic acid:
          9-[13-iodophenyl]methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
50
          9-[(4-iodophenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-acetamidophenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[13-acetamidophenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(4-acetamidophenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;
          9-[(2-carbamoylphenyi)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
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          9-[(3-carbamoylphenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(4-carbamoylphenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-{(2-methylsulfonylphenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl}oxyacetic acid.
          9-{(3-methylsulfonylphenyl)methyl]-2-trifluorom thyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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9-[(4-methylsulfonylphenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacelic acid
          9-[(2-methylphenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl|oxyacetic acid
          9-[(3-methylphenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl|oxyacetic acid.
          9-[(4-methylphenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
5
          9-[(2-ethylphenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3-ethylphonyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(4-ethylphenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-trifluoromethylphenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(3-trifluoromethylphenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
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          9-[(4-trifluoromethylphenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(cyclopropyi)methyi]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl[oxyacetic acid.
          9-[(cyclobutyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(cyclopentyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid,
          9-[(cyclohexyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
15
          9-[(2-methoxyphenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl}oxyacetic acid,
          9-[(3-methoxyphenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(4-methoxyphenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(2-ethoxyphenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3-ethoxyphenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
20
          9-[(4-ethoxyphenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2-trifluoromethoxyphenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3-trifluoromethoxyphenyl)methyl]-2-trifluoromethyl-5-carbarnoylcarbazol-4-yl]oxyacetic acid:
          9-[(4-trifluoromethoxyphenyl)methyl]-2-trifluoromethyl-5-carbarnoylcarbazol-4-yl)oxyacetic acid
          9-[(2-difluoromethoxyphenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
25
          9-[(3-difluoromethoxyphenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[14-difluoromethoxyphenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-cyanophenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3-cyanophenyi)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(4-cyanophenyl)methyl]-2-trifluoromethyl-5-carbamoyicarbazol-4-yl)oxyacetic acid.
30
          9-{(2-pyridyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl}oxyacetic acid
          9-[(3-pyridyi)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(4-pyridyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(2-furyl)methyl]-2-trifluoromethyl-5-carbarnoylcarbazol-4-yl}oxyacetic acid
          9-{(3-furyl)methyl}-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacotic acid.
35
          9-[(2-thienyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(3-thienyl)methyl)-2-trifluoromethyl-5-carbamoylcarbazol-4-yl}oxyacetic acid.
          9-[(2-benzylphenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(3-benzylphenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[i4-benzylphenyl]methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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          9-[(2-benzoylphenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid-
          9-[(3-benzoylphenyi)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(4-benzoylphenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(2-benzyloxyphenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(3-benzyloxyphenyl)methyl]-2-tnfluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
45
          9-[(4-benzyloxyphenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-phenylphenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3-phenylphenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl|oxyacetic acid
          9-[(4-phenylphenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(1-naphthyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
50
          9-[(2-naphthyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2.3-difluorophenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-((2.4-difluorophenyi)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-((2 5-difluorophenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2.6-difluorophenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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          9-[(3 4-difluorophenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3.5-difluorophenyl)methyl]-2-trifluorom thyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[12.3.4-trifluorophenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacatic acid:
          9-[(2 3.5-trifluorophenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
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9-[(2.3 6-trifluorophenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9\hbox{-}[(2.4,5\hbox{-}trifluorophenyl)] methyl]\hbox{-}2\hbox{-}trifluoromethyl}\hbox{-}5\hbox{-}carbamoylcarbazol\hbox{-}4\hbox{-}yl]\hbox{oxyacetic acid.}
          9-[i2,4.6-trifluorophenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3,4.5-trifluorophenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(pentafluorophenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
5
          9-[12.3-dichlorophenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid,
          9-[(2 4-dichlorophenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2.5-dichlorophenyl):methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;
          9-[i2,6-dichlorophenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacelic acid;
          9-[(3,4-dichlorophenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;
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          9-[(3.5-dichlorophenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacelic acid-
          9-[(2.3-dimethylphenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2.4-dimethylphenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl}oxyacetic acid:
          9-[(2.5-dimethylphenyi)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl)oxyacetic acid.
          9\hbox{-}[(2.6\hbox{-}dimethylphenyl)] methyl]\hbox{-}2-trifluoromethyl-5-carbamoylcarbazol\hbox{-}4-yl]oxyacetic acid:
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          9-[(3.4-dimethylphenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl/oxyacetic acid.
          9-[(3.5-dimethylphenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl|oxyacetic ecid;
          9-[12.4.6-trimethylphenyl]methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[i3.5-bis(trifluoromethyl)phenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl}oxyacetic acid.
          9-[(2.4-bis(trifluoromethyl)phenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl}oxyacetic acid.
20
          9-[(2-fluoro-3-trifluoromethylphenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2-fluoro-4-trifluoromethylphenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl}oxyacetic acid:
          9-[(2-fluoro-5-trifluoromethylphenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2-fluoro-6-trifluoromethylphenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(3-fluoro-5-trifluoromethylphenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl)oxyacetic acid:
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          9-[14-fluoro-2-trifluoromethylphenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[14-fluoro-3-trifluoromethylphenyl) methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[3-(2-fluorophenoxy)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[3-(4-fluorophenoxy)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[¡2-fluoro-3-methylphenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl}oxyacetic acid:
30
          9-[(3-chloro-2-fluorophenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;
          9-[(2-chloro-6-fluorophenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(4-bromo-2-fluorophenyi)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yi]oxyacetic acid:
          9-[(2-bromo-5-fluorophenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
35
          9-[(3-chloro-4-methylphenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;
          9-[(3-chloro-4-methoxyphenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(4-methoxy-3-methylphenyl)methylj-2-trilluoromethyl-5-carbamoylcarbazol-4-yljoxyacetic acid,
          9-[(4-Influoromethylthiophenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(1-bromo-2-naphthylphenyl]methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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          9-[(2-methyl-1-naphthylphenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl}oxyacetic acid:
          9-[(4-methyl-1-naphthylphenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl}oxyacetic acid:
          9-[(6-methyl-2-naphthylphenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl[oxyacetic acid:
          9-[(2-((phenylsulfonyl)methyl)phenyl)methyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(1-fluorenylmethyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(1-tetrazolylmethyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
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          9-[(5-methyl-1-tetrazolylmethyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(5-benzyl-1-tetrazolylmethyl]-2-trifluoromethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(phenyi)methyl]-2-phenyi-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2-phenoxyphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3-phenoxyphenyi)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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          9-[(4-phenoxyphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-fluorophenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(3-fluorophenyi)methyl]-2-phenyi-5-carbamoylcarbazol-4-yl)oxyacetic acid.
          9-[(4-fluorophenyi)methyi]-2-phenyi-5-carbamoylcarbazol-4-yi]oxyacetic acid;
          9-((2-chlorophenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;
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          9-[(3-chl rophenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl) xyacetic acid:
          9-[(4-chl rophenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl}oxyacetic acid.
          9-[(2-bromophenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;
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9-[(3-bromophenyl)methyl]-2-ph nyl-5-carbamoylcarbazol-4-yl)oxyacetic acid.
           9-[(4-bromophenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl}oxyacetic acid.
           9-[(2-iodophenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[(3-iodophenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;
 5
           9-[(4-iodophenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(2-acetamidophenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
           9-[(3-acetamidophenyi)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
           9-[(4-acetamidophenyi)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(2-carbamoylphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl}oxyacetic acid
 10
           9-[(3-carbamoylphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-viloxyacetic acid
           9-[(4-carbamoylphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-vlloxyacetic acid.
           9-[(2-methylsulfonylphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
           9-[(3-methylsulfonylphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl[oxyacetic acid.
           9-[(4-methylsulfonylphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
 15
           9-[i2-methylphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl}oxyacetic acid.
           9-[(3-methylphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(4-methylphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(2-ethylphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl}oxyacetic acid
           9-[(3-ethylphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
20
           9-[(4-ethylphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl}oxyacetic acid
           9-[(2-trifluoromethylphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(3-trifluoromethylphenyl)methyl]-2-phenyl-5-carbarnoylcarbazol-4-yl]oxyacetic acid.
           9-[(4-trifluoromethylphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(cyclopropyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid-
25
          9-[(cyclobulyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid-
          9-[(cyclopentyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(cyclonexyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(2-methoxyphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(3-methoxyphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
30
          9-[(4-methoxyphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-ethoxyphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(3-ethoxyphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl}oxyacetic acid.
          9-[(4-ethoxyphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(2-trifluoromothoxyphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
35
          9-[(3-trifluoromethoxyphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(4-trifluoromethoxyphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl}oxyacetic acid
          9-[i2-difluoromethoxyphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl}oxyacetic acid
          9-[(3-difluoromethoxyphanyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(4-difluoromethoxyphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl}oxyacetic acid
40
          9-[(2-cyanophenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(3-cyanophenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(4-cyanophenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-pyridyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3-pyridyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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          9-[(4-pyridyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2-furyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3-furyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-thienyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(3-thienyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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          9-[i2-benzylphenyl)methyl]-2-/henyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[i3-benzylphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(4-benzylphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2-benzoylphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(3-benzoylphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
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          9-[(4-benzoylphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyac tic acid.
          9-[(2-benzyloxyphenyl)methyl]-2-ph nyl-5-carbamoylcarbazol-4-yl]oxyac tic acid.
          9-[(3-benzyloxyphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(4-benzyloxyphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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9-[i2-phenylphenyl)methyl]-2-ph nyl-5-carbamoylcarbazol-4-yl}oxyacetic acid.
           9-[(3-phenylphenyl)methyl]-2-ph nyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(4-phenylphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[(1-naphthyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl}oxyacetic acid.
 5
           9-[(2-naphthyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[i2.3-difluorophenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[12,4-difluorophenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(2.5-difluorophenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[(2,6-difluorophenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
 10
           9-(3,4-difluorophenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[r3,5-difluorophenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[(2.3.4-trifluorophenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[(2.3.5-trifluorophenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;
           9-[12.3.6-trifluorophenyl]methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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           9-[(2,4 5-trifluorophenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl}oxyacetic acid:
           9-[(2.4 6-trifluorophenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[13.4,5-trifluorophenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;
           9-[(pentafluorophenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[12.3-dichlorophenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
 20
           9-[12 4-dichlorophenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;
           9-[(2.5-dichlorophenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;
           9-[12,6-dichlorophenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[i3.4-dichlorophenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;
           9-[(3.5-dichlorophenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
25
           9-[(2,3-dimethylphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(2.4-dimethylphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-ylloxyacetic acid.
           9-[(2 5-dimethylphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(2,6-dimethylphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid,
          9-[(3.4-dimethylphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
30
          9-[(3.5-dimethylphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl}oxyacetic acid
          9-[(2,4,6-trimethylphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3.5-bis(trifluoromethyl)phenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[12.4-bis(trifluoromethyl)phenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(2-fluoro-3-trifluoromethylphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid,
35
          9-[(2-fluoro-4-trifluoromethylphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2-fluoro-5-trifluoromethylphenyl)methyl] -2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2-fluoro-6-trifluoromethylphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(3-fluoro-5-trifluoromethylphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl}oxyacetic acid.
          9-[14-fluoro-2-trifluoromethylphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
40
          9-[i4-fluoro-3-trifluoromethylphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[3-(2-fluorophenoxy)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[3-(4-fluorophenoxy)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2-fluoro-3-methylphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl}oxyacetic acid.
          9-[i3-chloro-2-fluorophenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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          9-[(2-chloro-6-fluorophenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[i4-bromo-2-fluorophenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl}oxyacetic acid.
          9-[i2-bromo-5-fluorophenyl]methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(3-chloro-4-methylphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(3-chloro-4-methoxyphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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          9-[(4-methoxy-3-methylphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl}oxyacetic acid.
          9-[(4-trifluoromethylthiophenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-{(1-bromo-2-naphthylphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl}oxyacetic acid.
          9-{(2-methyl-1-naphthylphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(4-methyl-1-naphthylphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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          9-[i6-methyl-2-naphthylphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2-((phenylsulfonyl)methyl)phenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(1-fluorenylmethyl]-2-phenyl-5-carbamoylcarbazol-4-yl] xyacetic acid;
          9-[(1-tetrazolylmethyl]-2-phenyl-5-carbamoylcarbaz | 1-4-yl]oxyacetic acid.
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9-[(5-methyl-1-tetrazolylmethyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
            9-[15-benzyl-1-tetrazolylmethyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
            9-[(phenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
            9-[i2-phenoxyphenyl]methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
  5
            9-[i3-phenoxyphenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
            9-[(4-phenoxyphonyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
            9-[(2-fluorophenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
            9-[(3-fluorophenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid
            9-[(4-fluorophenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
  10
            9-[i2-chlorophenyl)methyi]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
            9-[(3-chlorophenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid
           9-[(4-chlorophenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
           9-[(2-bromophenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[i3-bromophenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid
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           9-[i4-bromophenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid
           9-[(2-iodophenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[(3-iodophenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(4-iodophenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[(2-acetamidophenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
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           9-[(3-acetamidophenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
           9-[(4-acetamidophenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(2-carbamoylphenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid;
           9-[(3-carbamoylphenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacelic acid
           9-[14-carbamoylphenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
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           9-[(2-methylsulfonylphenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid:
           9-[(3-methylsulfonylphenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[(4-methylsullonylphenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
           9-[(2-methylphenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(3-methylphenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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           9-[(4-methylphenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[(2-ethylphenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[(3-ethylphenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid:
           9-[(4-ethylphenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid,
           9-[(2-trifluoromethylphenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
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           9-[(3-trifluoromethylphenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid
           9-[(4-trifluoromethylphenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(cyclopropyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(cyclobutyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(cyclopentyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(cyclohexyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
40
          9-[(2-methoxyphenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[i3-methoxyphenyl]methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(4-methoxyphenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-ethoxyphenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
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          9-[(3-ethoxyphenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(4-ethoxyphenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[i2-trifluoromethoxyphenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[i3-trifluoromethoxyphenyi)methyl]-2-(4-chlorophenyi)-5-carbamoylcarbazoi-4-yi|oxyacetic acid:
          9-[(4-trifluoromethoxyphenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid;
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          9-[(2-difluoromethoxyphenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(3-difluoromethoxyphenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(4-difluoromethoxyphenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-cyanophenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[i3-cyanophenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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          9-[14-cyanophenyl]methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid,
         9-[12-pyridyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-ylloxyacetic acid:
         9-[13-pyridyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
         9-[(4-pyridyi)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yi]oxyacelic acid:
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9-[(2-furyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(3-furyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
           9-[(2-thienyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
           9-[(3-thienyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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           9-{(2-benzylphenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[(3-benzylphenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
           9-[(4-benzylphenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
           9-[(2-benzoylphenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
           9-[(3-benzoylphenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
 10
           9-[(4-benzoylphenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(2-benzyloxyphenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yljoxyacetic acid:
           9-[(3-benzyloxyphenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid-
           9-[i4-benzyloxyphenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
           9-[(2-phenylphenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid:
 15
           9-[i3-phenylphenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(4-phenylphenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-{(1-naphthyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
           9-[(2-naphthyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(2,3-difluorophenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
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           9-[(2,4-difluorophenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(2.5-difluorophenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid:
           9-[(2.6-diffuorophenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[13.4-difluorophenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid:
           9-[(3.5-diflucrophenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid
25
           9-{(2,3.4-trifluorophenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid;
          9-{(2,3.5-trifluorophenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
          9-{(2,3,6-trifluorophenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2,4,5-trifluorophenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2,4,6-lrifluorophenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
30
          9-[(3.4,5-trifluorophenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid;
          9-[(pentafluorophenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2.3-dichlorophenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2,4-dichlorophenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2,5-dichlorophenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
35
          9-(12,6-dichlorophenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3,4-dichlorophenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid:
          9-[(3,5-dichlorophenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid;
          9-[(2 3-dimethylphanyl)methyl]-2-(4-chlorophanyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(2.4-dimethylphenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid
40
          9-[(2.5-dimethylphenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-(12,6-dimethyliphenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid,
          9-[(3,4-dimethylphenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3,5-dimethylphenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2.4.6-trimethylphenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid:
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          9-[(3,5-bis(trifluoromethyl)phenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2,4-bis(trifluoromethyl)phenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-fluoro-3-trifluoromethylphenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-fluoro-4-trifluoromethylphenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-fluoro-5-trifluoromethylphenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
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          9-[(2-fluoro-6-trifluoromethylphenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(3-fluoro-5-trifluoromethylphenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(4-fluoro-2-trifluoromethylphenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid;
          9-[(4-fluoro-3-trifluoromethylphenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[3-(2-fluorophenoxy)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
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          9-[3-(4-fluorophenoxy)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid:
          9-[(2-fluoro-3-methylphenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl) xyacetic acid:
         9-[(3-chloro-2-fluorophenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2-chloro-6-fluorophenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbaz I-4-yl]oxyacetic acid:
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9-[14-bromo-2-fluorophenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
            9-[(2-bromo-5-fluorophenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
            9-[[3-chloro-4-methylphenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
            9-[i3-chloro-4-methoxyphenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[14-methoxy-3-methylphenyl]methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
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           9-[i4-trifluoromethylthiophenyl]methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[i1-bromo-2-naphthylphenyl]methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[i2-methyl-1-naphthylphenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(4-methyl-l-naphthylphenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
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           9-[(6-methyl-2-naphthylphenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[12-((phenylsulfonyl)methyl)phenyl)methyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[i1-fluorenylmethyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid.
           9-[(1-tetrazolylmethyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[i5-methyl-1-tetrazolylmethyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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           9-[(5-benzyl-l-tetrazolylmethyl]-2-(4-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[rphenyl]methyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(2-phenoxyphenyl)methyl]-2-(2.4-dichlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid:
           9-[(3-phenoxyphenyl)methyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(4-phenoxyphenyl)methyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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           9-[(2-fluorophenyl)methyl]-2-(2 4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[(3-fluorophenyl)methyl]-2-(2.4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[(4-fluorophenyl)methyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid:
           9-[(2-chlorophenyl)methyl]-2-(2.4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[(3-chlorophenyl)methyl]-2-(2.4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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           9-[14-chlorophenyl)methyl]-2-(2.4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(2-bromophenyl)methyl]-2-(2.4-dichlorophenyl)-5-carbamoylcarbazol-4-ylloxyacetic acid
           9-[(3-bromophenyl)methyl]-2-(2.4-dichlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
           9-[14-bromophenyl]methyl]-2-(2.4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[i2-iodophenyl]methyl]-2-(2.4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
 30
           9-[(3-iodophenyl)methyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
           9-[(4-iodophenyl)methyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid;
           9-[(2-acetamidophenyl)methyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
           9-[(3-acetamidophenyl)methyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[14-acetamidophenyl]methyl]-2-(2.4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
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          9-[(2-carbamoylphenyl)methyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3-carbamoylphenyl)methyl]-2-(2.4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(4-carbamoylphenyl)methyl]-2-(2.4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-methylsulfonylphenyl)methyl]-2-(2 4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[i3-methylsulfonylphenyl)methyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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          9-[14-methylsulfonylphenyl)methyl]-2-(2.4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid,
          9-[i2-methylphenyl]methyl]-2-(2.4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3-methylphenyl)methyl]-2-(2.4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(4-methylphenyl)methyl]-2-(2.4-dichlorophenyl)-5-carbamoylcarbazol-4-yi}oxyacetic acid
          9-[(2-ethylphenyl)methyl]-2-(2.4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid;
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          9-[(3-ethylphenyl)methyl]-2-(2.4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(4-ethylphenyl)methyl]-2-(2.4-dichlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid:
          9-[(2-trifluoromethylphenyl)methyl]-2-(2.4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3-trifluoromethylphenyl)methyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[14-trifluoromethylphenyl)methyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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          9-(cyclopropyl)methyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(cyclobutyl)methyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid:
          9-[(cyclopentyl)methyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(cyclohexyl)methyl]-2-(2.4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[i2-methoxyphenyi]methyi]-2-(2.4-dichlorophenyi)-5-carbamoylcarbazol-4-yi]oxyacetic acid.
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         9-[i3-methoxyphenyl)methyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
         9-[14-methoxyphenyl]methyl]-2-(2,4-dichlorophenyl)-5-carbam ylcarbaz I-4-yl]oxyacetic acid.
         9-[(2-ethoxyphenyl]methyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbaz I-4-ylloxyacetic acid.
         9-[(3-ethoxyphenyl)methyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid.
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9-[14-ethoxyphenyl]methyl]-2-(2.4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[12-trifluoromethoxyphenyl]methyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(3-trifluoromethoxyphenyl)methyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid
           9-[(4-trifluoromethoxyphenyl)methyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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           9-[12-difluoromethoxyphenyl]methyl]-2-(2.4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid,
           9-[(3-difluoromethoxyphenyl)methyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid;
           9-[14-difluoromethoxyphenyl]methyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid;
           9-[(2-cyanophenyl)methyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[13-cyanophenyl)methyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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           9-[14-cyanophenyl]methyl]-2-(2.4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[(2-pyridyl)methyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
           9-[(3-pyridyl)methyl]-2-(2.4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(4-pyridyl)methyl]-2-(2.4-dichlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
           9-[(2-furyl)methyl]-2-(2.4-dichlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid
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           9-[13-furyl)methyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[(2-thienyl)methyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
           9-[(3-thienyl)methyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid
           9-[(2-benzylphenyl)methyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbazol-4-ylloxyacetic acid
           9-[13-benzylphenyl)methyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
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           9-[(4-benzylphenyl)methyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid;
           9-[12-benzovlphenyl)methyl]-2-(2 4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(3-benzoylphenyl)methyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid:
           9-[14-benzoylphenyl)methyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[12-benzyloxyphenyl]methyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
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           9-[(3-benzyloxyphenyl)methyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(4-benzyloxyphenyl)methyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid.
           9-[(2-phenylphenyl)methyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
           9-[(3-phenylphenyl)methyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
           9-[(4-phenylphenyl)methyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid-
           9-[(1-naphthyl)methyl]-2-(2.4-dichlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
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           9-[(2-naphthyl)melhyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2,3-difluorophenyl)methyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2,4-difluorophenyl)methyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[12,5-diffuorophenyl]methyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
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          9-[12,6-difluorophenyl]methyl]-2-(2.4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(3 4-difluorophenyl)methyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3,5-difluorophenyl)methyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
          9-[(2,3,4-trifluorophenyl)methyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(2,3,5-trifluorophenyl)methyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid:
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          9-[12.3,6-trifluorophenyl]methyl]-2-(2.4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2.4.5-trifluorophenyl)methyl]-2-(2.4-dichlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
          9-[(2.4.6-trifluorophenyl)methyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid:
          9-[(3,4,5-trifluorophenyl)methyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(pentafluorophenyl)methyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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          9-[12.3-dichlorophenyl]methyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid;
          9-[12.4-dichlorophenyl]methyl]-2-(2.4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2.5-dichlorophenyl)methyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[i2,6-dichlorophenyl]methyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3,4-dichlorophenyl)methyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid,
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          9-[(3.5-dichlorophenyl)methyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid;
          9-[12.3-dimethylphenyl)methyl]-2-(2.4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2,4-dimethylphenyl)methyl]-2-(2.4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2,5-dimethylphenyl)methyl]-2-(2.4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid;
          9-[(2,6-dimethylphenyl)methyl]-2-(2 4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
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          9-[(3,4-dimethylphenyl)methyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbazol-4-ylloxyacetic acid.
         9-[13,5-dimethylphenyl)methyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbaz I-4-yl]oxyacetic acid:
          9-[(2,4.6-trimethylphenyl)methyl]-2-(2.4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyac tic acid.
          9-[(3,5-bis(trifluoromethyl)phenyl)methyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
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9-{(2.4-dishloromethyl)phenyl)methyl]-2-(2.4-dishlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
          9-[12-fluoro-3-trifluoromethylphenyl]methyl]-2-(2.4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacelic acid
          9-[(2-fluoro-4-trifluoromethylphenyl)methyl]-2-(2.4-dichlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
          9-[(2-fluoro-5-trifluoromethylphenyl)methyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid.
          9-[(2-fluoro-6-trifluoromethylphenyl)methyl]-2-(2.4-dichlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
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          9-[(3-fluoro-5-trifluoromethylphenyl)methyl]-2-(2.4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(4-fluoro-2-trifluoromethylphenyl)methyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(4-fluoro-3-trifluoromethylphenyl)methyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
          9-[3-(2-fluorophenoxy)methyl]-2-(2.4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
10
          9-[3-(4-fluorophenoxy)methyl]-2-(2 4-dichlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid
          9-[12-fluoro-3-methylphenyl)methyl]-2-(2.4-dichlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid:
          9-[(3-chloro-2-fluorophenyl)methyl]-2-(2.4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(2-chloro-6-fluorophenyl)methyl]-2-(2.4-dichlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid
          9-[(4-bromo-2-fluorophenyl)methyl]-2-(2 4-dichlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
15
          9-[(2-bromo-5-fluorophenyl)methyl]-2-(2 4-dichlorophenyl)-5-carbamoylcarbazol-4-ylloxyacetic acid.
          9-[(3-chloro-4-methylphenyl)methyl]-2-(2 4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3-chloro-4-methoxyphenyl)methyl]-2-(2.4-dichlorophenyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid.
          9-{(4-melhoxy-3-methylphenyl)methyl]-2-(2.4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(4-trifluoromethylthiophenyl)methyl]-2-(2.4-dichlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid
20
          9-[(1-bromo-2-naphthylphenyl)methyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbazol-4-ylloxyacetic acid.
          9-[(2-methyl-1-naphthylphenyl)methyl]-2-(2.4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(4-methyl-1-naphthylphenyl)methyl]-2-(2.4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid,
          9-[(6-methyl-2-naphthylphenyl)methyl]-2-(2.4-dichlorophenyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid,
          9-[12-((phenylsullonyl)methyl)phenyl)methyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid
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          9-[(1-fluorenylmethyl]-2-(2.4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(1-tetrazolylmethyl]-2-(2,4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(5-methyl-1-tetrazolylmethyl]-2-(2.4-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(5-benzyl-1-tetrazolylmethyl]-2-(2.4-dichlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid
          9-[(phenyl)methyl]-2-(2,6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid-
30
          9-[(2-phenoxyphenyi)methyi]-2-(2,6-dichlorophenyi)-5-carbamoylcarbazol-4-yi]oxyacetic acid
          9-[(3-phenoxyphenyl)methyl]-2-(2 6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(4-phenoxyphenyl)methyl]-2-(2.6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(2-fluorophenyl)methyl]-2-(2.6-dichlorophenyl)-5-carbarnoylcarbazol-4-yl]oxyacetic acid,
          9-[(3-fluorophenyl)methyl]-2-(2 6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
35
          9-((4-fluorophenyl)methyl]-2-(2,6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[r2-chlorophenyl)methyl]-2-(2.6-dichlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid
          9-[(3-chlorophenyl)methyl]-2-(2,6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(4-chlorophenyl)methyl]-2-(2,6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(2-bromophenyl)methyl]-2-(2,6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
40
          9-[(3-bromophenyl)methyl]-2-(2.6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(4-bromophenyl)methyl]-2-(2,6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-iodophenyl)methyl]-2-(2.6-dichlorophenyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid.
          9-[(3-iodophenyl)methyl]-2-(2,6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(4-iodophenyl)methyl]-2-(2,6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
45
          9-[(2-acetamidophenyl)methyl]-2-(2,6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3-acetamidophenyl)methyl]-2-(2 6-dichlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid
          9-[(4-acetamidophenyl)methyl]-2-(2,6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-{(2-carbamoylphenyl)methyl]-2-(2,6-dichlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
          9-[(3-carbamoylphenyi)methyl]-2-(2,6-dichlorophenyi)-5-carbamoylcarbazol-4-yl]oxyacetic acid
50
          9-[(4-carbamoylphenyl)methyl]-2-(2,6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(2-methylsulfonylphenyl)methyl]-2-(2.6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3-methylsulfonylphenyl)methyl]-2-(2.6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(4-methylsulfonylphenyl)methyl]-2-(2,6-dichlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
          9-[(2-methylphenyl)methyl]-2-(2,6-dichlorophenyl)-5-carbarnoylcarbazol-4-yl]oxyacetic acid
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          9-[(3-methylphenyl)methyl]-2-(2.6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(4-methylphenyl)methyl]-2-(2,6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyac tic acid-
          9-[(2-ethylph nyl)m thyl]-2-(2.6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3-ethylphenyl)methyl]-2-(2.6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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9-[(4-ethylphenyl)methyl]-2-(2,6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(2-trifluoromethylphenyl)methyl]-2-(2 6-dichlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
           9-[(3-trifluoromethylphenyl)methyl]-2-(2 6-dichlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
           9-[(4-trifluoromethylphenyl)methyl]-2-(2,6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
 5
           9-[(cyclopropyl)methyl]-2-(2 6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[rcyclobutyl)methyl]-2-(2,6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
           9-[(cyclopentyl)methyl]-2-(2,6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(cyclohexyl)methyl]-2-(2.6-dichlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
           9-[(2-methoxyphenyl)methyl]-2-(2 6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
10
           9-[(3-methoxyphenyl)methyl]-2-(2,6-dichlorophenyl)-5-carbarnoylcarbazol-4-yl]oxyacetic acid-
           9-[(4-methoxyphenyl)methyl]-2-(2,6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[(2-ethoxyphenyl)methyl]-2-(2.6-dichlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
           9-[i3-ethoxyphenyl)methyl]-2-(2.6-dichlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
           9-[14-ethoxyphenyl)methyl]-2-(2,6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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           9-[(2-trifluoromethoxyphenyi)methyl]-2-(2.6-dichlorophenyl)-5-carbamoylcarbazol-4-ylloxyacetic acid
           9-[(3-trifluoromethoxyphenyi)methyl]-2-(2 6-dichlorophenyi)-5-carbamoylcarbazol-4-ylloxyacetic acid
           9-[14-trifluoromethoxyphenyl]methyl]-2-(2 6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[i2-difluoromethoxyphenyl]methyl]-2-i2 6-dichlorophenyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid
           9-[(3-difluoromethoxyphenyl)methyl]-2-(2.6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
20
           9-[(4-difluoromethoxyphenyl)methyl]-2-(2,6-dichlorophenyl)-5-carbamoylcarbazol-4-ylloxyacetic acid:
           9-[12-cyanophenyl]methyl]-2-(2.6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[13-cyanophenyl)methyl]-2-(2.6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[14-cyanophenyl)methyl]-2-(2,6-dichlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
          9-[(2-pyridyl)methyl]-2-(2.6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid;
25
          9-[(3-pyridyl)methyl]-2-(2 6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid;
          9-[(4-pyridyl)methyl]-2-(2.6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid;
          9-[(2-furyl)methyl]-2-(2.6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3-furyl)methyl]-2-(2,6-dichlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
          9-{(2-thienyl)methyl}-2-(2.6-dichlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid
30
          9-[(3-thienyl)methyl]-2-(2,6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-benzylphenyl)methyl]-2-(2,6-dichlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid;
          9-[i3-benzylphenyl]methyl]-2-(2 6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(4-benzylphenyl)methyl]-2-(2,6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid,
          9-[(2-benzoylphenyl)methyl]-2-(2.6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid,
35
          9-[i3-benzoylphenyl)methyl]-2-(2.6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[14-benzoylphenyl)methyl]-2-(2.6-dichlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
          9-[(2-benzyloxyphenyl)methyl]-2-(2,6-dichlorophenyl)-5-carbamoylcarbazol-4-ylloxyacetic acid:
          9-[13-benzyloxyphenyl)methyl]-2-(2 6-dichlorophenyl)-5-carbamoylcarbazol-4-ylloxyacetic acid:
          9-[14-benzyloxyphenyl]methyl]-2-(2,6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid,
40
          9-[(2-phenylphenyl)methyl]-2-(2.6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3-phenylphenyl)methyl]-2-(2.6-dichlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
          9-[(4-phenylphenyl)methyl]-2-(2.6-dichlorophenyl)-5-carbamoylcarbazol-4-ylloxyacetic acid
          9-{11-naphthyl)methyl]-2-(2,6-dichlorophenyl)-5-carbarnoylcarbazol-4-yl}oxyacetic acid
          9-[(2-naphthyl)methyl]-2-(2.6-dichlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
45
          9-[12.3-difluorophenyl)methyl]-2-(2.6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2.4-difluorophenyl)methyl]-2-(2,6-dichlorophenyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid.
          9-[(2,5-difluorophenyl)methyl]-2-(2,6-dichlorophenyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid.
          9-[12.6-difluorophenyl)methyl]-2-(2.6-dichlorophenyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid.
          9-[(3,4-difluorophenyl)methyl]-2-(2.6-dichlorophenyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid;
          9-[(3,5-diffuorophenyl)methyl]-2-(2,6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
50
          9-[(2.3,4-trifluorophenyl)methyl]-2-(2,6-dichlorophenyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid:
          9-[(2.3.5-trifluorophenyl)methyl]-2-(2,6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid;
          9-[(2,3,6-trifluorophenyl)methyl]-2-(2,6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid;
          9-[(2.4.5-trifluorophenyl)methyl]-2-(2.6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
55
          9-[(2,4.6-trifluorophenyl)methyl]-2-(2,6-dichlorophenyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid;
          9-[(3,4.5-triflucrophenyl)methyl]-2-(2,6-dichlorophenyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid
          9-[(pentafluorophenyl)methyl]-2-(2.6-dichlorophenyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid:
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9-[(2,3-dichlorophenyl)methyl]-2-(2.6-dichlorophenyl)-5-carbarnoylcarbazol-4-yl)oxyacetic acid:

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9-[(2,4-dichlorophenyl)methyl]-2-(2.6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[12 5-dichlorophenyl]methyl]-2-(2,6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2.6-dichlorophenylimethyl]-2-(2.6-dichlorophenyl)-5-carbarnoylcarbazol-4-yl]oxyacetic acid
          9-[(3.4-dichlorophenyl)methyl]-2-(2.6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
5
          9-[(3.5-dichlorophenyl)methyl]-2-(2,6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(2.3-dimethylphenyl)methyl]-2-(2 6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2,4-dimethylphenyl)methyl]-2-(2 6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2 5-dimethylphenyl)methyl[-2-(2 6-dichlorophenyl)-5-carbamoylcarbazol-4-yl[oxyacetic acid.
          9-[i2 6-dimethylphenyl)methyl]-2-i2 6-dichlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid:
10
          9-[(3,4-dimethylphenyl)methyl]-2-(2,6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(3.5-dimethylphenyl)methyl]-2-(2.6-dichlorophenyl)-5-carbamoyicarbazol-4-yl]oxyacetic acid:
          9-[(2.4.6-trimethylphenyl)methyl]-2-(2.6-dichlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid
          9-[(3.5-bis(trifluoromethyl)phenyl)methyl]-2-(2.6-dichlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid,
          9-[(2.4-bis(trifluoromethyl)phenyl)methyl]-2-(2 6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(2-fluoro-3-trifluoromethylphenyl)methyl]-2-(2 6-dichlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
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          9- [(2-fluoro-4-trifluoromethylphenyl)methyl]-2-(2.6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2-fluoro-5-trifluoromethylphenyl)methyl]-2-(2.6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[12-fluoro-6-trifluoromethylphenyl)methyl]-2-(2,6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(3-fluoro-5-trifluoromethylphenyl)methyl]-2-(2 6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
20
          9-[(4-fluoro-2-trifluoromethylphenyl)methyl]-2-(2,6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(4-fluoro-3-trifluoromethylphenyl)methyl]-2-(2.6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[3-(2-fluorophenoxy)methyl]-2-(2 6-dichlorophenyl)-5-carbamoylcarbazol-4-yl|oxyacetic acid:
          9-[3-(4-fluorophenoxy)methyl]-2-(2 6-dichlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
          9-[(2-fluoro-3-methylphenyl)methyl]-2-(2.6-dichlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
          9-I(3-chloro-2-fluorophenyl)methyl]-2-(2 6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
25
          9-[(2-chloro-6-fluorophenyl)methyl]-2-(2.6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[14-bromo-2-fluorophenyl)methyl]-2-(2.6-dichlorophenyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid
          9-[12-bromo-5-fluorophenyl)methyl]-2-(2.6-dichlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
          9-[(3-chloro-4-methylphenyl)methyl]-2-(2 6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[13-chloro-4-methoxyphenyl)methyl]-2-(2.6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid,
30
          9-[14-methoxy-3-methylphenyl)methyl]-2-(2 6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(4-trifluoromethylthiophenyl)methyl]-2-(2.6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(1-bromo-2-naphthylphenyl)methyl]-2-(2,6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-methyl-1-naphthylphenyl)methyl]-2-(26-dichlorophenyl)-5-carbamoyicarbazol-4-yl]oxyacetic acid.
          9-[(4-methyl-1-naphthylphenyl)methyl]-2-(2 6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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          9-[(6-methyl-2-naphthylphenyl)methyl]-2-(2.6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-((phenylsulfonyl)methyl)phenyl)methyl]-2-(2,6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(1-fluorenylmethyl]-2-(2 6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-{(1-tetrazolylmethyl]-2-(2,6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid;
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          9-[(5-methyl-1-tetrazolylmethyl]-2-(2 6-dichlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(5-benzyl-1-tetrazolylmethyl]-2-(2 6-dichlorophenyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid
          9-{(phenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl{oxyacetic acid.
          9-{(2-phenoxyphenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid:
          9-((3-phenoxyphenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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          9-{(4-phenoxyphenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
          9-[(2-fluorophenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid,
          9-[(3-fluorophenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(4-fluorophenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid,
          9-[(2-chlorophenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoyicarbazol-4-yl]oxyacetic acid.
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          9-[(3-chlorophenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid;
          9-(i4-chlorophenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-{(2-bromophenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid
          9-[(3-bromophenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(4-bromophenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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          9-[(2-iodophenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3-iodophenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbaz I-4-yl]oxyacetic acid:
          9-[14-lodophenyl)methyl]-2-(4-meth xyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2-acetamidophenyl)methyl]-2-(4-meth xyphenyl)-5-carbamoylcarbaz I-4-yl]oxyacetic acid
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9-[¡3-acetamidoph nyi]methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
         9-[14-acetamidophenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
         9-[(2-carbamoylphenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(3-carbamoylphenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
         9-[(4-carbamoylphenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
         9-[¿2-methylsulfonylphenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
         9-[i3-methylsulfonylphenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[r4-methylsulfonylphenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[i2-methylphenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid:
         9-[(3-methylphenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
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          9-[(4-methylphenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid;
          9-[(2-ethylphenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid:
          9-[(3-ethylphenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid;
          9-[(4-ethylphenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
15
          9-[(2-trifluoromethylphenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
          9-[13-trifluoromethylphenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(4-trifluoromethylphenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-(cyclopropyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[icyclobutyi]methyi]-2-(4-methoxyphenyi)-5-carbamoylcarbazol-4-yi]oxyacetic acid.
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          9-[(cyclopentyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
          9-[(cyclohexyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[[2-methoxyphenyl]methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-(i3-methoxyphenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(4-methoxyphenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-ethoxyphenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
25
          9-[(3-ethoxyphenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(4-ethoxyphenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid:
          9-[(2-trifluoromethoxyphenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(3-trifluoromethoxyphenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(4-trifluoromethoxyphenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
30
          9-[(2-difluoromethoxyphenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid;
          9-[(3-diffuoromethoxyphenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid,
          9-[(4-difluoromethoxyphenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid:
          9-[(2-cyanophenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3-cyanophenyi)methyl]-2-(4-methoxyphenyi)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
35
          9-[14-cyanophenyi]methyi]-2-(4-methoxyphenyi)-5-carbamoylcarbazol-4-yi]oxyacetic acid:
          9-[(2-pyridyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid:
          9-[(3-pyridyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
          9-[(4-pyridyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
40
          9-[(2-furyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[i3-luryl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid:
          9-[(2-thienyl)methyl]-2-(4-methoxyphenyl)-5- carbamoylcarbazol-4-yl]oxyacetic acid;
          9-[(3-thienyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-benzylphenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.\\
          9-[(3-benzylphenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
45
          9-[(4-benzylphenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-benzoylphenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3-benzoylphenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(4-benzoylphenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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          9-[(2-benzyloxyphenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(3-benzyloxyphenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(4-benzyloxyphenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-phenylphenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(3-phenylphenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid;
55
          9-[(4-phenylphenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid:
          9-[(1-naphthyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbaz I-4-yl]oxyacetic acid:
          9-[(2-naphthyi)methyi]-2-(4-methoxyphenyi)-5-carbarnoylcarbazol-4-yi)oxyacetic acid;
          9-[(2,3-difluorophenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid;
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9-{(2 4-difluorophenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl} xyacetic acid
            9-[(2 5-diffuorophenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
            9-[i2 6-difluorophenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
            9-[(3.4-difluorophenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
            9-[(3 5-difluorophenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
 5
            9-[(2.3.4-trifluorophonyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-ylloxyacetic acid.
            9-[i2.3.5-trifluorophenyi]methyl]-2-(4-methoxyphenyi]-5-carbamoylcarbazol-4-yi]oxyacetic acid.
            9-[(2.3,6-trifluorophenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
            9-[12.4.5-trifluorophenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
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            9-[i2 4 6-trifluorophenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yljoxyacetic acid
            9-[(3 4 5-trifluorophenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
            9-[(pentafluorophenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
            9-[i2.3-dichlorophenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid,
           9-[(2.4-dichlorophenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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           9-[i2.5-dichlorophenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9\hbox{-}[(2.6\hbox{-}dichlorophenyl)methyl]\hbox{-}2\hbox{-}(4\hbox{-}methoxyphenyl)\hbox{-}5\hbox{-}carbamoylcarbazol\hbox{-}4\hbox{-}yl]\hbox{oxyacetic acid.}
           9-[13.4-dichlorophenyl]methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
           9-[(3.5-dichlorophenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(2.3-dimethylphenyl)methyl]-2-14-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(2.4-dimethylphenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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           9-[(2 5-dimethylphenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(2,6-dimethylphenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[(3.4-dimethylphenyl)methyl]-2-i4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[(3.5-dimethylphenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
25
           9-[(2.4.6-trimethylphenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yljoxyacetic acid.
           9-[(3.5-bis(trifluoromethyl)phenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl{oxyacetic acid.
           9-[(2.4-bis(trifluoromethyl)phenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(2-fluoro-3-trifluoromethylphenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(2-fluoro-4-trifluoromethylphenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
30
           9-[(2-fluoro-5-trifluoromethylphenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(2-fluoro-6-trifluoromethylphenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(3-fluoro-5-trifluoromethylphenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(4-fluoro-2-trifluoromethylphenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(4-fluoro-3-trifluoromethylphenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yljoxyacetic acid.
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          9-[3-(2-fluorophenoxy)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[3-(4-fluorophenoxy)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(2-fluoro-3-methylphenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid;
           9-[13-chloro-2-fluorophenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl|oxyacetic acid
          9-[(2-chloro-6-fluorophenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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          9-[i4-bromo-2-fluorophenyi]methyl]-2-(4-methoxyphenyi)-5-carbamoylcarbazol-4-yi]oxyacetic acid:
          9-[(2-bromo-5-fluorophenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[i3-chloro-4-methylphenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(3-chloro-4-methoxyphenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[14-methoxy-3-methylphenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
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          9-[i4-trifluoromethylthiophenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
          9-[(1-bromo-2-naphthylphenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[12-methyl-1-naphthylphenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid,
          9-[(4-methyl-1-naphthylphenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[i6-methyl-2-naphthylphenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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          9-[i2-((phenylsulfonyl)methyl)phenyl)methyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid.
          9-[(1-fluorenylmethyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(1-tetrazolylmethyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[15-methyl-1-tetrazolylmethyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[15-benzyl-1-tetrazolylmethyl]-2-(4-methoxyphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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          9-[(phenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-phen xyphenyl)methyl]-2-(hydr xymethyl)-5-carbamoylcarbaz I-4-yl]oxyacetic acid:
          9-[i3-phenoxyphenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbaz I-4-yl}oxyacetic acid:
          9-[(4-phenoxyphenyl)methyl]-2-(hydr xymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
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9-{(2-fluorophenyl)m thyl]-2-(hydroxymethyl)-5-carbamoylcarbaz 1-4-yl]oxyac tic acid.
           9-[(3-fluorophenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl] xyac tic acid.
           9-[(4-fluorophenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(2-chlorophenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[i3-chlorophenyi]methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[14-chlorophenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid:
           9-[(2-bromophenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid;
           9-[(3-bromophenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid;
           9-[(4-bromophenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
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           9-[(2-iodophenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid-
           9-[(3-iodophenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
           9-[(4-iodophenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[12-acetamidophenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(3-acetamidophenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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           9-[(4-acetamidophenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(2-carbamoylphenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(3-carbamoylphenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[14-carbamoylphenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[i2-methylsulfonylphenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid
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          9-[(3-methylsulfonylphenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[14-methylsulfonylphenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(2-methylphenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
          9-[(3-methylphenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[14-methylphenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid
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          9-[12-ethylphenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3-ethylphenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(4-ethylphenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[i2-trifluoromethylphenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[13-trifluoromethylphenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid.
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          9-[(4-trifluoromethylphenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(cyclopropyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid:
          9-[rcyclobutyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(cyclopentyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid:
          9-[(cyclohexyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid:
35
          9-[12-methoxyphenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[i3-methoxyphenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(4-methoxyphenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid;
          9-[(2-ethoxyphenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid
          9-[(3-ethoxyphenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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          9-{(4-ethoxyphenyl)methyl}-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
          9-[(2-trifluoromethoxyphenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid;
          9-[(3-trifluoromethoxyphenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yljoxyacetic acid:
          9-[i4-trifluoromethoxyphenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2-difluoromethoxyphenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl|oxyacetic acid.
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          9-[(3-difluoromethoxyphenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(4-difluoromethoxyphenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid;
          9-[(2-cyanophenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-{(3-cyanophenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid;
          9-{(4-cyanophenyi)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
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          9-[(2-pyridyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid:
         9-[(3-pyridyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-ylloxyacetic acid:
         9-[(4-pyndyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl|oxyacetic acid:
         9-[(2-furyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
         9-[(3-furyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid.
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         9-[(2-thienyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid;
         9-[(3-thienyi)methyi]-2-(hydroxymethyi)-5-carbamoylcarbazol-4-yi]oxyac tic acid.
         9-{(2-benzylphenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid;
         9-[(3-benzylphenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid;
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9-[(4-benzylphenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[12-benzoylphenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-{(3-benzoylphenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
          9-[14-benzoylphenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid.
          9-[(2-benzyloxyphenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3-benzyloxyphenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(4-benzyloxyphenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-phenylphenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(3-phenylphenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[14-phenylphenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
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          9-[(1-naphthyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
          9-[(2-naphthyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid.
          9-[(2 3-difluorophenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid.
          9-[(2.4-difluorophenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid.
          9-[12,5-difluorophenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid
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          9-[(2.6-difluorophenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid.
          9-[(3 4-difluorophenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3.5-difluorophenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-(¿2 3.4-trifluorophenyi)methyi]-2-(hydroxymethyi)-5-carbamoylcarbazol-4-yi|oxyacetic acid
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          9-[(2.3.5-trifluorophenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid
          9-[(2.3.6-trifluorophenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2,4.5-trifluorophenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(2 4,6-trifluorophenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3.4,5-trifluorophenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid:
25
          9-[(pentafluorophenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2.3-dichlorophenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid
          9-[(2,4-dichlorophenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2,5-dichlorophenyi)methyi]-2-(hydroxymethyi)-5-carbamoylcarbazol-4-yi]oxyacetic acid.
          9-[(2,6-dichlorophenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-(13 4-dichlorophenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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          9-[(3.5-dichlorophenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2 3-dimethylphenyi)methyl]-2-thydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2,4-dimethylphenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl\partial oxyacetic acid.
          9-[(2,5-dimethylphenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl|oxyacetic acid:
          9-[(2,6-dimethylphenyl)methyl]-2-thydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3.4-dimethylphenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3,5-dimethylphenyl)methyl]-2-thydroxymethyl)-5-carbamoylcarbazol-4-ylfoxyacetic acid:
          9-[12 4 6-trimethylphenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid
          9-[(3,5-bis(trifluoromethyl)phenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[{2.4-bis(trifluoromethyl)phenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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          9-[12-fluoro-3-trifluoromethylphenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-fluoro-4-trifluoromethylphenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[i2-fluoro-5-trifluoromethylphenyl]methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl|oxyacetic acid.
          9-[¡2-fluoro-6-trifluoromethylphenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid
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          9-[13-fluoro-5-trifluoromethylphenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[14-fluoro-2-trifluoromethylphenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(4-fluoro-3-trifluoromethylphenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[3-(2-fluorophenoxy)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[3-(4-fluorophenoxy)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl/oxyacetic acid.
          9-[12-fluoro-3-methylphenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
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          9-[13-chloro-2-fluorophenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2-chloro-6-fluorophenyi)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[14-bromo-2-fluorophenyi)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-bromo-5-fluorophenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid;
          9-[(3-chloro-4-methylphenyl)methyl]-2-(hydroxymethyl)-5-carbarnoylcarbazol-4-yl]oxyacetic acid.
          9-[(3-chloro-4-methoxyphenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(4-meth_xy-3-methylphenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbaz_l-4-yl)oxyacetic acid:
          9-[(4-tnfluorom_thylthiophenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyac_tic_acid
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9-[i1-bromo-2-naphthylphenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(2-methyl-1-naphthylph nyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(4-methyl-1-naphthylphenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid.
           9-[(6-methyl-2-naphthylphenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[12-((phenylsulfonyl)methyl)phenyl)methyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid
           9-[11-fluorenylmethyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid.
           9-[i1-tetrazolylmethyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid,
           9-[15-methyl-1-tetrazolylmethyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(5-benzyl-l-tetrazolylmethyl]-2-(hydroxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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           9-[(phenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(2-phenoxyphenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
           9-[(3-phenoxyphenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(4-phenoxyphenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yi]oxyacetic acid.
           9-[(2-fluorophenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-vl}oxyacetic acid:
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           9-[(3-fluorophenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid:
           9-[i4-fluorophenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid:
           9-[(2-chlorophenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
           9-[(3-chlorophenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid:
           9-[(4-chlorophenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
20
           9-[(2-bromophenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(3-bromophenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[(4-bromophenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[(2-iodophenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(3-icdophenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-ylloxyacetic acid:
25
           9-[(4-iodophenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[12-acetamidophenyl]methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(3-acetamidophenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
           9-[(4-acetamidophenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid
           9-[(2-carbamoylphenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
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           9-[(3-carbamoylphenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid:
           9-[(4-carbamoylphenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid:
           9-[/2-methylsulfonylphenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[i3-methylsulfonylphenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(4-methylsulfonylphenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
35
          9-[(2-methylphenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl|oxyacetic acid
           9-[i3-methylphenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(4-methylphenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid,
          9-[(2-ethylphenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(3-ethylphenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(4-ethylphenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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          9-[(2-Influoromethylphenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
          9-[13-trifluoromethylphenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(4-trifluoromethylphenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(cyclopropyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
45
          9-[(cyclobutyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(cyclopentyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(cyclohexyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-methoxyphenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3-methoxyphenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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          9-[(4-methoxyphenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2-ethoxyphenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(3-ethoxyphenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(4-ethoxyphenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(2-trifluoromethoxyphenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid:
55
          9-[(3-trifluoromethoxyphenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(4-trifluoromethoxyph_nyl)m_thyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-viloxyacetic acid:
          9-[(2-difluoromethoxyphenyl)methyl]-2-(meth_xymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(3-difluoromethoxyphenyl)m thyl]-2-(meth xymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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9-[(4-difluoromethoxyphenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid
          9-[(2-cyanophenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(3-cyanophenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(4-cyanophenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(2-pyridyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3-pyridyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(4-pyridyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-furyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3-furyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
10
          9-[i2-thienyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[i3-thienyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[i2-benzylphenyl]methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3-benzylphenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid:
          9-[(4-benzylphenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
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          9-[(2-benzoylphenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl|oxyacetic acid
          9-[(3-benzoylphenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-((4-benzoylphenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid.
          9-[(2-benzyloxyphenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(3-benzyloxyphenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
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          9-[(4-benzyloxyphenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-{(2-phenylphenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
          9-[(3-phenylphenyl)methyl]-2-(methoxymethyl)-5-carbarnoylcarbazol-4-yl]oxyacetic acid
          9-[(4-phenylphenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
          9-[(1-naphthyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid.
25
          9-[(2-naphthyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacelic acid
          9-[12.3-difluorophenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid.
          9-[(2.4-difluorophenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid.
          9-[12.5-difluorophenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yljoxyacetic acid.
          9-[(2 6-difluorophenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
30
          9-[(3.4-difluorophenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yljoxyacetic acid.
          9-[(3,5-difluorophenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid
          9-[(2.3 4-trifluoropheriyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2 3 5-trifluorophenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2.3.6-trifluorophenyl)methyl)-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid.
35
          9-[(2.4 5-trifluorophenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid:
          9-[(2,4 6-trifluoropheriyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3 4.5-trifluorophenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid.
          9-[(pentafluorophenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(2.3-dichlorophenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid,
40
          9-[(2 4-dichlorophenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl\partialyxyacetic acid
          9-[(2 5-dichlorophenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2.6-dichlorophenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(3.4-dichlorophenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(3.5-dichlorophenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
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          9-[(2.3-dimethylphenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2,4-dimethylphenyl)methyl]-2-imethoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(2 5-dimethylphenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2.6-dimethylphenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3.4-dimethylphenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid-
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          9-[(3.5-dimethylphenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(2 4.6-trimethylphenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
          9-[(3.5-bis(trifluoromethyl)phenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2,4-bis(trifluoromethyl)phenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-fluoro-3-trifluoromethylphenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
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          9-[(2-fluoro-4-trifluoromethylphenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid
          9-[(2-fluoro-5-trifluoromethylphenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(2-fluoro-6-trifluoromethylphenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3-fluoro-5-trifluoromethylphenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid
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9-[(4-fluoro-2-trifluoromethylphenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
          9-[(4-fluoro-3-trifluoromethylphenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[3-(2-fluorophenoxy)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl|oxyacetic acid;
          9-[3-(4-fluorophenoxy)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yljoxyacetic acid.
          9-[(2-fluoro-3-methylphenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid.
          9-[(3-chloro-2-fluorophenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-chloro-6-fluorophenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(4-bromo-2-fluorophenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[i2-bromo-5-fluorophenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
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          9-[(3-chloro-4-methylphenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid
          9-[(3-chloro-4-methoxyphenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid:
          9-[(4-methoxy-3-methylphenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(4-trifluoromethylthiophenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid
          9-[(1-bromo-2-naphthylphenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid
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          9-[(2-methyl-1-naphthylphenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-((4-methyl-1-naphthylphenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid:
          9-[(6-methyl-2-naphthylphenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-((phenylsulfonyl)methyl)phenyl)methyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid.
          9-{(1-fluorenylmethyl)-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid,
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          9-[(1-tetrazolylmethyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(5-methyl-1-tetrazolylmethyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl/oxyacetic acid.
          9-[(5-benzyl-1-tetrazolylmethyl]-2-(methoxymethyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid;
          9-[(phenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2-phenoxyphenyl)methyl]-2-(2-furanyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
25
          9-[(3-phenoxyphenyl)methyl]-2-(2-furanyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(4-phenoxyphenyl)methyl]-2-(2-furanyl-5-carbamoylcarbazol-4-yl)oxyacetic acid:
          9-[(2-fluorophenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3-fluorophenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
          9-[(4-fluorophenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
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          9-[(2-chlorophenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3-chlorophenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(4-chlorophenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(2-bromophenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3-bromophenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
35
          9-[(4-bromophenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-iodophenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3-iodophenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid:
          9-((4-iodophenyl)methyl)-2-(2-furanyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid:
          9-[(2-acetamidophenyl)methyl]-2-(2-furanyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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          9-[(3-acetamidophenyl)methyl]-2-(2-furanyl-5-carbamoylcarbazol-4-yl]oxyacetic acid,
          9-[(4-acetamidophenyl)methyl]-2-(2-furanyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-carbamoylphenyl)methyl]-2-(2-furanyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3-carbamoylphenyl)methyl]-2-(2-furanyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(4-carbamoylphenyl)methyl]-2-(2-furanyl-5-carbamoylcarbazol-4-yl)oxyacetic acid.
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          9-[(2-methylsulfonylphenyl)methyl]-2-(2-furanyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3-methylsulfonylphenyl)methyl]-2-(2-furanyl-5-carbamoylcarbazol-4-yl}oxyacetic acid.
          9-[(4-methylsulfonylphenyl)methyl]-2-(2-furanyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-methylphenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3-methylphenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
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          9-[(4-methylphenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-ethylphenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[13-ethylphenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(4-ethylphenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(2-trifluoromethylphenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
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          9-[(3-trifluoromethylphenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl|oxyacetic acid;
          9-[(4-trifluoromethylphenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid,
          9-f(cvclopropyl)methyll-2-(2-furanyl)-5-carbamovicarbaz I-4-viloxyacetic acid:
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9-[(cyclobutyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl]oxyac tic acid.

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9-[(cyclopentyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(cyclohexyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-vi)oxyacetic acid
           9-[(2-methoxyphenyl)methyl]-2-(2-furanyl-5-carbamoylcarbazol-4-yl)oxyacetic acid
           9-[(3-methoxyphenyl)methyl]-2-(2-furanyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
           9-[(4-methoxyphenyl)methyl]-2-(2-furanyl-5-carbamoylcarbazol-4-yl)oxyacetic acid
           9-[(2-ethoxyphenyl)mothyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid;
           9-[(3-ethoxyphenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[(4-ethoxyphenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-ylloxyacetic acid
           9-[(2-trifluoromethoxyphenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid
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           9-[(3-Influoromethoxyphenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid
           9-[(4-Influoromethoxyphenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
           9-[(2-difluoromethoxyphenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl|oxyacetic acid
           9-[(3-diffuoromethoxyphenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
           9-[(4-difluoromethoxyphenyl)methyll-2-(2-furanyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid
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           9-[(2-cyanophenyl)melhyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(3-cyanophenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-vlloxyacetic acid
           9-[(4-cyanophenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid.
           9-[(2-pyridyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(3-pyridyl)methyl]-2-(2-furanyl)-5-carbamovicarbazol-4-vl}oxvacetic acid.
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           9-[(4-pyridyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
           9-[(2-furyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(3-furyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(2-thienyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-vi)oxyacetic acid.
           9-[(3-thienyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
25
           9-[(2-benzylphenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl[oxyacetic acid.
           9-[(3-benzylphenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-vlloxyacetic acid
           9-[(4-benzylphenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-ylloxyacetic acid
          9-[(2-benzoylphenyl)methyl]-2-(2-furanyl-5-carbamoylcarbazol-4-yl)oxyacetic acid
           9-[(3-benzoylphenyl)methyl]-2-(2-furanyl-5-carbamoylcarbazol-4-yl)oxyacetic acid
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          9-[14-benzoylphenyl)methyl]-2-(2-furanyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-benzyloxyphenyl)methyl]-2-(2-furanyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(3-benzyloxyphenyl)methyl]-2-(2-furanyl-5-carbamoylcarbazol-4-vl)oxyacetic acid
          9-[(4-benzyloxyphenyl)methyl]-2-(2-furanyl-5-carbamoylcarbazol-4-yl)oxyacetic acid
          9-[(2-phonylphonyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl|oxyacetic acid
          9-[(3-phenylphenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid,
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          9-[(4-phenylphenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(1-naphthyl)methyl]-2-(2-luranyl)-5-carbamovicarbazol-4-viloxyacetic acid.
          9-[(2-naphthyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2 3-difluorophenyl)methyl]-2-(2-furanyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
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          9-[i2 4-difluorophenyl]methyl]-2-(2-furanyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[12,5-difluorophenyl)methyl]-2-(2-furanyl-5-carbamovicarbazol-4-vl)oxyacetic acid
          9-[(2.6-difluorophenyl)melhyl]-2-(2-furanyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(3 4-difluorophenyl)methyl]-2-(2-furanyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(3 5-difluorophenyl)methyl]-2-(2-furanyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
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          9-[(2 3 4-triflucrophenyl)methyl]-2-(2-furanyl-5-carbamoylcarbazol-4-ylloxyacetic acid:
          9-[(2 3 5-trifluorophenyl)methyl]-2-(2-furanyl-5-carbamoylcarbazol-4-yl}oxyacetic acid:
          9-[(2.3 6-trifluorophenyl)methyl]-2-(2-furanyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2.4,5-trifluorophenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2.4,6-trifluorophenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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          9-[(3.4.5-trifluorophenyl)methyl]-2-(2-furanyl-5-carbamoylcarbazol-4-vi)oxyacetic acid
          9-[(pentafluorophenyl)methyl]-2-(2-furanyl-5-carbamoylcarbazol-4-yl)oxyacetic acid.
          9-[(2,3-dichlorophenyl)methyl]-2-(2-furanyl-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(2,4-dichlorophenyl)methyl]-2-(2-furanyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2,5-dichlorophenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
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          9-[(2 6-dichlorophenyl)methyl]-2-(2-furanyl-5-carbamoylcarbazol-4-yl)oxyacetic acid
          9-[(3 4-dichlorophenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid
          9-[(3 5-dichlorophenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2.3-dimethylphenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl} xyacetic acid.
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9-[(2,4-dimethylphenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
          9-[(2,5-dimethylphenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-ylfoxyacetic acid:
          9-[(2,6-dimethylphenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(3 4-dimethylphenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3.5-dimethylphenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
5
          9-[(2,4,6-trimethylphenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3,5-bis(trifluoromethyl)phenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid:
          9-[(2,4-bis(trifluoromethyl)phenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-fluoro-3-trifluoromethylphenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2-fluoro-4-trifluoromethylphenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid;
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          9-[(2-fluoro-5-trifluoromethylphenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-fluoro-6-trifluoromethylphenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(3-fluoro-5-trifluoromethylphenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(4-fluoro-2-trifluoromethylphenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[¡4-fluoro-3-trifluoromethylphenyl]methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid;
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          9-[3-(2-fluorophenoxy)methyl]-2-(2-furanyl-5-carbamoylcarbazol-4-yl)oxyacetic acid.
          9-[3-(4-fluorophenoxy)methyl]-2-(2-furanyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;
          9-[(2-fluoro-3-methylphenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3-chloro-2-fluorophenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl/oxyacetic acid.
          9-[(2-chloro-6-fluorophenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
20
          9-[i4-bromo-2-fluorophenyl]methyl]-2-(2-furanyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-bromo-5-fluorophenyl)methyl]-2-(2-furanyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[i3-chloro-4-methylphenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(3-chloro-4-methoxyphenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(4-methoxy-3-methylphenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid;
25
          9-[(4-trifluoromethylthiophenyl)methyl]-2-(2-luranyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(1-bromo-2-naphthylphenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
          9-[(2-methyl-1-naphthylphenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid:
          9-[(4-methyl-1-naphthylphenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid,
          9-[(6-methyl-2-naphthylphenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl|oxyacetic acid;
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          9-[(2-((phenylsulfonyl)methyl)phenyl)methyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(1-fluorenylmethyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(1-tetrazolylmethyl]-2-(2-furanyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(5-methyl-l-tetrazolylmethyl]-2-(2-furanyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(5-benzyl-1-tetrazolylmethyl]-2-(2-furanyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:
35
          9-[(phenyl)methyl]-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-phenoxyphenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid:
          9-[(3-phenoxyphenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid;
          9-[14-phenoxyphenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
          9-[(2-fluorophenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid;
40
           9-[(3-fluorophenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(4-fluorophenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid.
           9-[(2-chlorophenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl[oxyacetic acid:
          9-[(3-chlorophenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[(4-chlorophenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
45
           9-[(2-bromophenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[(3-bromophenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[(4-bromophenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid;
           9-[(2-todophenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(3-iodophenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid:
50
           9-[(4-iodophenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(2-acetamidophenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid,
           9-[(3-acetamidophenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid;
           9-[14-acetamidophenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid.
           9-[(2-carbamoylphenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
 55
           9-[(3-carbamoylphenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(4-carbamoylphenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid,
           9-[(2-methylsulfonylphenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbaz I-4-yl]oxyacetic acid:
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9-[13-methylsulfonylphenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbaz 1-4-yl)oxyacetic acid.
           9-[i4-methylsulfonylphenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yljoxyacetic acid.
           9-[i2-methylphenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yljoxyacetic acid:
           9-[i3-methylphenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
 5
           9-[(4-methylphenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
           9-[(2-ethylphenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(3-ethylphenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[(4-ethylphenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid:
           9-[i2-trifluoromethylphenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(3-trifluoromethylphenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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           9-[(4-trifluoromethylphenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
           9-[(cyclopropyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-{icyclobutyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
           9-[(cyclopentyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
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           9-[(cyclohexyl) methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl|oxyacetic acid.
           9-[(2-methoxyphenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(3-melhoxyphenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[14-methoxyphenyl]methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(2-ethoxyphenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid:
 20
           9-[(3-ethoxyphenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(4-ethoxyphenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[(2-trifluoromethoxyphenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(3-trifluoromethoxyphenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[14-trifluoromethoxyphenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
 25
           9-[(2-diffluoromethoxyphenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(3-diffuoromethoxyphenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl[oxyacetic acid.
           9-[14-diffuoromethoxyphenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
           9-[(2-cyanophenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
           9-[(3-cyanophenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
30
           9-[(4-cyanophenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-vl]oxyacetic acid.
           9-[(2-pyridyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
           9-[13-pyridyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid
          9-[14-pyridyl]methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[i2-furyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
35
          9-[13-furyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2-thienyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid.
          9-[(3-thienyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid:
          9-[(2-benzylphenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[r3-benzylphenyl)methyl]-2-(2-thienyl)-5-carbamovicarbazol-4-vlloxyacetic acid:
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          9-[(4-benzylphenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2-benzoylphenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3-benzoylphenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(4-benzoylphenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2-benzyloxyphenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
45
          9-[(3-benzyloxyphenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(4-benzyloxyphenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid
          9-[(2-phenylphenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3-phenylphenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(4-phenylphenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid;
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          9-[(1-naphthyl]methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2-naphthyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[12.3-difluorophenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid;
          9-[i2.4-difluorophenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid:
          9-[(2.5-difluorophenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2,6-diffuorophenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
55
          9-[(3,4-difluorophenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbaz I-4-yl]oxyacetic acid,
          9-[i3.5-difluorophenyl]methyl]-2-(2-thienyl)-5-carbamoylcarbaz i-4-yl]oxyacetic acid.
          9-[(2,3,4-trifluorophenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid:
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9-[(2,3,5-trifluorophenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-ylloxyacetic acid.
          9-[(2 3,6-trifluorophenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid:
          9-[(2 4,5-trifluorophenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2.4,6-trifluorophenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid,
          9-[(3,4.5-trifluorophenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(pentafluorophenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid-
          9-[(2,3-dichlorophenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2,4-dichlorophenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-{(2.5-dichlorophenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
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          9-[(2 6-dichlorophenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(3,4-dichlorophenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3.5-dichlorophenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2.3-dimethylphenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid;
          9-[12,4-dimethylphenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid.
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          9-[(2,5-dimethylphenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2,6-dimethylphenyl)methyl]-2-i2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3 4-dimethylphenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(3.5-dimethylphenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2,4,6-trimethylphenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
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          9-[(3,5-bis(trifluoromethyl)phenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid:
          9-[(2,4-bis(trifluoromethyl)phenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid:
          9-[(2-fluoro-3-trrfluoromethylphenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetc acid.
          9-[(2-fluoro-4-trifluoromethylphenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-fluoro-5-trifluoromethylphenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
25
          9-{(2-fluoro-6-trifluoromethylphenyl)methyll-2-(2-thienyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid:
          9-[(3-fluoro-5-trifluoromethylphenyl)methyl]-2- (2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(4-fluoro-2-trifluoromethylphenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl}oxyacetc acid.
          9-[(4-fluoro-3-trifluoromethylphenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[3-(2-fluorophenoxy)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
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          9-[3-(4-fluorophenoxy)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-fluoro-3-methylphenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid;
          9-[(3-chloro-2-fluorophenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(2-chloro-6-fluorophenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid
          9-[(4-bromo-2-fluorophenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
35
          9-f(2-bromo-5-fluorophenyl)methyll-2-(2-thienyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid-
          9-[(3-chloro-4-methylphenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid,
          9-[(3-chloro-4-methoxyphenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid
          9-[(4-methoxy-3-methylphenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(4-trifluoromethylthiophenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
40
          9-[(1-bromo-2-naphthylphenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid:
          9-[(2-methyl-1-naphthylphenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid.
          9-[(4-methyl-1-naphthylphenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(6-methyl-2-naphthylphenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-((phenylsulfonyl)methyl)phenyl)methyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.
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          9-[(1-fluorenylmethyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(1-tetrazolylmethyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid,
          9-[(5-methyl-1-tetrazolylmethyl]-2-(2-thianyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(5-benzyl-1-tetrazolylmethyl]-2-(2-thienyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          9-[(2-phenoxyphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid;
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          9-[(3-phenoxyphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid;
          9-[(2-fluorophenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid.
          9-I(3-fluorophenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-ylloxyacetic acid:
          9-[(4-fluorophenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid.
          9-[(2-chlorophenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid:
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          9-[(3-chlorophenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl}oxyacetic acid,
          9-[(2-bromophenyl)methyl]-5-carbamoyl-2-flu rocarbazol-4-yl]oxyacetic acid.
          9-[(3-bromophenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyac tic acid
          9-[(2-iodophenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid:
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9-[(3-iodophenyl)methyl]-5-carbamoyl-2-fluorocarbaz  1-4-yl]oxyacetic acid.
           9-[(2-acetamidophenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid.
           9-[(3-acetamidophenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-vi}oxyacetic acid
           9-[(2-carbamoylphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-vl]oxyacetic acid-
 5
           9-[(3-carbamoylphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid
           9-[(2-mothylsulfonylphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid
           9-[(3-methylsulfonylphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid:
           9-[(2-me!hylphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl}oxyacetic acid:
           9-[(3-methylphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-ylloxyacetic acid-
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           9-[(2-ethylphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid;
           9-[(3-ethylphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl}oxyacetic acid
           9-[(2-trifluoromethylphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid
           9-[(3-trifluoromethylphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid.
           9-[(2-methoxyphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid.
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           9-[(cyclopropyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-v]]oxyacetic acid
           9-(cyclobutyl)methyl)-5-carbamovi-2-fluorocarbazol-4-viloxvacetic acid
           9-[(cyclopentyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid
           9-[(cyclohexyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl}oxyacetic acid.
           9-[(3-methoxyphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-v]]oxyacetic acid-
20
          9-[(2-ethoxyphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid.
          9-[(3-ethoxyphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl)oxyacetic acid.
          9-[(2-Influoromethoxyphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid.
          9-[(3-trifluoromethoxyphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid.
          9-[(2-difluoromethoxyphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl}oxyacetic acid.
25
          9-[(3-difluoromethoxyphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid:
          9-li2-cyanophenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid;
          9-[(3-cyanophenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid;
          9-[(4-cyanophenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-ylloxyacetic acid:
          9-[(2-pyridyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid
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          9-[(3-pyridyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid.
          9-[(2-furyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid
          9-l(3-furyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid.
          9-[(2-thienyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid
          9-[(3-thienyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid.
35
          9-[(2-benzylphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid
          9-[(3-benzylphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-vl]oxyacetic acid:
          9-[(2-benzoylphenyl)methyl]-5-carbamovI-2-fluorocarbazoI-4-vI)oxyacetic acid:
          9-[(3-benzoylphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid:
          9-[(2-benzyloxyphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid
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          9-[(3-benzyloxyphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl}oxyacetic acid.
          9-[(4-benzyloxyphenyl)methyl]-5-carbamovI-2-fluorocarbazoI-4-vIloxyacetic acid.
          9-[(2-phenylphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl}oxyacetic acid.
          9-[(3-phenylphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl}oxyacetic acid.
          9-[(1-naphthyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl}oxyacetic acid
45
          9-[(2-naphthyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl}oxyacetic acid
          9-[(2 3-difluorophenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-ylloxyacetic acid:
          9-[(2.4-difluorophenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid:
          9-[(2 5-difluorophenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid.
          9-[12.6-difluorophenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid;
50
          9-[(3.4-diffuorophenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-vlloxyacetic acid:
          9-[(3,5-difluorophenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid.
          9-[(2,3.4-trifluorophenyi)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl}oxyacetic acid,
          9-[(2.3 5-trifluorophenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl}oxyacetic acid
          9-[(2.3 6-trifluorophenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid.
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          9-[12,4.5-trifluorophenyl)methyl]-5-carbarnoyl-2-fluorocarbazol-4-ylloxyacetic acid.
          9-[(2 4 6-trifluorophenyl)methyl]-5-carbamoyl-2-flu rocarbaz I-4-yl} xyacetic acid
          9-[(3.4.5-trifluorophenyl)methyl]-5-carbamoyl-2-fluorocarbaz 1-4-yl} xyacetic acid
          9-(rpentafluorophenyl)methyl]-5-carbam yl-2-fluorocarbazol-4-yl]oxyacetic acid:
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9-[(2.3-dichlorophenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl) xyacetic acid.
           9-[(2.4-dichlorophenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyac tic acid,
           9-[(2,5-dichlorophenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid;
           9-[(2,6-dichlorophenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid,
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           9-[(2-phenoxyphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid:
           9-[(3-phenoxyphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid.
           9-[(2-fluorophenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid:
           9-[(3-fluorophenyl)methyl]-5-carbarnoyl-2-chlorocarbazol-4-yl]oxyacetic acid.
           9-[(4-fluorophenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl)oxyacetic acid:
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           9-[(2-chlorophenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid;
           9-[(3-chlorophenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl}oxyacetic acid:
           9-[(2-bromophenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid;
           9-[i3-bromophenyl]methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid.
           9-[(2-iodophenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl}oxyacetic acid:
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           9-[13-iodophenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid:
           9-[(2-acetamidophenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid:
           9-I(3-acetamidophenyi)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid:
           9-[(2-carbamoylphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid:
           9-[(3-carbamoylphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl}oxyacetic acid;
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           9-[(2-methylsulfonylphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid.
           9-[i3-methylsulfonylphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid:
           9-[(2-methylphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid:
           9-[(3-methylphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid:
          9-[(2-ethylphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid:
25
          9-[13-ethylphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid.
          9-[12-trifluoromethylphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid.
          9-[(3-trifluoromethylphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid.
          9-[(2-methoxyphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid:
          9-[(cyclopropyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid.
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          9-[(cyclobutyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl}oxyacetic acid,
          9-[(cyclopentyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid:
          9-[(cyclohexyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid.
          9-[(3-methoxyphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl)oxyacetic acid:
          9-[(2-ethoxyphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid:
35
          9-[(3-ethoxyphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid:
          9-[(2-trifluoromethoxyphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid:
          9-[(3-trifluoromethoxyphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid;
          9-[(2-difluoromethoxyphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid-
          9-[(3-difluoromethoxyphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid:
40
          9-[(2-cyanophenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid;
          9-[(3-cyanophenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid.
          9-[(4-cyanophenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid.
          9-[(2-pyridyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid:
          9-[(3-pyridyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl}oxyacetic acid:
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          9-[(2-furyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid.
          9-[(3-furyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-ylloxyacetic acid.
          9-[(2-thienyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid:
          9-[(3-thienyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid;
          9-[(2-benzylphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid,
50
          9-[(3-benzylphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid.
         9-[(2-benzoylphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid;
         9-[(3-benzoylphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid;
         9-(2-benzyloxyphenyl)methyl]-5-carbamoyi-2-chlorocarbazol-4-yl]oxyacetic acid;
         9-[(3-benzyloxyphenyl)methyl)-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid;
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         9-[(4-benzyloxyphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid;
         9-[(2-phenylphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid:
         9-[t3-phenylphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl}oxyacetic acid:
         9-[(1-naphthyl)methyl]-5-carbamoyl-2-chl rocarbazol-4-yl]oxyacetic acid;
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9-[(2-naphthyl)methyl]-5-carbamoyl-2-chlorocarbaz I-4-yl]oxyacetic acid.
          9-[(2 3-diffucrophenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid.
          9-[(2.4-difluorophenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl)oxyacetic acid.
          9-[(2.5-difluorophenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid.
5
          9-[(2.6-difluorophenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid:
          9-[(3.4-difluorophenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid.
          9-[(3.5-difluorophenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid
          9-[(2.3.4-trifluorophenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl)oxyacetic acid:
          9-[(2.3.5-trifluorophenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid.
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          9-[(2,3 6-trifluorophenyi)methyl]-5-carbamoyi-2-chlorocarbazol-4-yl]oxyacetic acid.
          9-[12 4.5-trifluorophenyl]methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid.
          9-[12 4 6-trifluorophenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid.
          9-[(3 4 5-trifluorophenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid
          9-[(pentafluorophenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid
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          9-[(2,3-dichlorophenyl)methyl}-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid.
          9-[(2.4-dichlorophenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid:
          9-[(2.5-dichlorophenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid
          9-[(2.6-dichlorophenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid.
          9-[(2-fluoro-3-trifluoromethylphenyl)methyl]-5-carbarnoyl-2-fluorocarbazol-4-yl}oxyacetic acid.
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          9-[(2-fluoro-5-trifluoromethylphenyl)methyl]-5-carbarnoyl-2-fluorocarbazol-4-yl]oxyacetic acid
          9-[(2-fluoro-6-trifluoromethylphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid.
          9-[(3-fluoro-5-trifluoromethylphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid.
          9-[i4-fluoro-2-trifluoromethylphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid:
          9-[(4-fluoro-3-trifluoromethylphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid.
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          9-[3-(2-fluorophenoxy)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid.
          9-[3-(4-fluorophenoxy)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid
          9-[(2-fluoro-3-methylphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid:
          9-[(3-chloro-2-fluorophenyi)methyl]-5-carbamoyi-2-fluorocarbazol-4-yl]oxyacetic acid.
          9-[(2-chloro-6-fluorophenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid.
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          9-[(2-bromo-5-fluorophenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl)oxyacetic acid.
          9-[(1-bromo-2-naphthylphenyi)methyl]-5-carbarnoyl-2-fluorocarbazol-4-yl]oxyacetic acid:
          9-[(2-methyl-1-naphthylphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid
          9-[(6-methyl-2-naphthylphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid.
          9-[(2-((phenylsulfonyl)methyl)phenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid.
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          9-[(1-fluorenylmethyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid.
          9-[(2-fluoro-3-trifluoromethylphenyl)methyl]-5-carbarnoyl-2-chlorocarbazol-4-yl]oxyacetic acid.
          9-[(2-fluoro-5-trifluoromethylphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid
          9-[(2-fluoro-6-trifluoromethylphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid:
          9-[13-fluoro-5-trifluoromethylphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid:
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          9-[(4-fluoro-2-trifluoromethylphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid:
          9-[14-fluoro-3-trifluoromethylphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid:
          9-[3-(2-fluorophenoxy)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid:
          9-[3-(4-fluorophenoxy)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl)oxyacetic acid:
          9-[(2-fluoro-3-methylphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid:
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          9-[(3-chloro-2-fluorophenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl}oxyacetic acid.
          9-[(2-chloro-6-fluorophenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid.
          9-[(2-bromo-5-fluorophenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid,
          9-[11-bromo-2-naphthylphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid.
          9-[12-methyl-1-naphthylphenyl)methyl]-5-carbarnoyl-2-chlorocarbazol-4-yl]oxyacetic acid
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          9-[i6-methyl-2-naphthylphenyl)methyl]-5-carbarnoyl-2-chlorocarbazol-4-yl]oxyacetic acid;
          9-[i2-((phenylsulfonyl)methyl)phenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid.
          9-[(1-fluorenylmethyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid.
          9-[(2-phenoxyphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl}oxyacetic acid.
          9-[i3-phenoxyphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid:
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          9-[(2-fluorophenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid
          9-[i3-fluor phenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyac tic acid
          9-[(4-fluor phenyl)methyl]-5-carbamoyl-1-flu rocarbazol-4-yl]oxyacetic acid
          9-[12-chlorophenyl)methyl]-5-carbamoyl-1-flu rocarbazol-4-yl]oxyac tic acid.
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9-[(3-chlorophenyl)methyl)-5-carbamoyl-1-fluorocarbazol-4-yl)oxyacetic acid.
          9-[(2-biomophenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid,
          9-[(3-bromophenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl}oxyacetic acid.
          9-[(2-iodophenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid:
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          9-[i3-iodophenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid-
          9-[(2-acetamidophenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid.
          9-[13-acetamidophenyl]methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid;
          9-[(2-carbamoylphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid:
          9-[(3-carbamoylphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid;
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          9-[(2-methylsulfonylphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid:
          9-[(3-methylsulfonylphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid;
          9-[(2-methylphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid:
          9-[(3-methylphenyl)methyll-5-carbamoyl-1-fluorocarbazol-4-yl}oxyacetic acid.
          9-[(2-ethylphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid.
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          9-[(3-ethylphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid.
          9-[(2-trifluoromethylphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid.
          9-[(3-trifluoromethylphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid;
          9-[(2-methoxyphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid:
          9-(cyclopropyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl}oxyacetic acid.
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          9-[(cyclobutyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid.
          9-[(cyclopentyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid:
          9-[(cyclohexyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid.
          9-[(3-methoxyphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid.
          9-[(2-ethoxyphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid;
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          9-[(3-ethoxyphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid;
          9-[(2-trifluoromethoxyphenyl)methyl]-5-carbamoyi-1-fluorocarbazol-4-yl}oxyacetic acid:
          9-[(3-trifluoromethoxyphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid:
          9-[(2-difluoromethoxyphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl)oxyacetic acid.
          9-[(3-difluoromethoxyphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid.
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          9-[(2-cyanophenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid:
          9-[(3-cyanophenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid:
          9-[(4-cyanophenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid:
          9-[(2-pyridyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl}oxyacetic acid;
          9-[(3-pyridyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid,
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          9-[(2-furyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid.
          9-[(3-furyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid.
          9-[(2-thienyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid,
          9-[(3-thienyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid,
          9-[(2-benzylphenyi)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl}oxyacetic acid;
          9-[(3-benzylphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid;
40
          9-[(2-benzoylphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid:
          9-[(3-benzoylphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid;
          9-((2-benzyloxyphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid:
          9-[(3-benzyloxyphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid:
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          9-[(4-benzyloxyphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid:
          9-[(2-phenylphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid;
          9-[(3-phenylphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid:
          9-[(1-naphthyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid.
          9-[(2-naphthyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid.
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          9-[(2.3-difluorophenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid;
          9-[(2,4-difluorophenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl)oxyacetic acid.
          9-[(2,5-difluorophenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid:
          9-[(2,6-diffuorophenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-ylloxyacetic acid,
          9-[(3,4-difluorophenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid;
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          9-[(3.5-difluorophenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl)oxyacetic acid;
          9-{(2.3.4-trifluorophenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl}oxyacetic acid,
          9-[(2.3.5-trifluorophenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid;
          9-[(2,3,6-trifluorophenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid,
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9-[(2 4 5-trifluorophenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid-
          9-[(2.4,6-trifluorophenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid
          9-[(3 4,5-trifluorophenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid
          9-[ipentafluorophenyi]methyi]-5-carbamoyl-1-fluorocarbazol-4-yi]oxyacetic acid.
5
          9-[(2.3-dichlorophenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid
          9-[(2,4-dichlorophenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid
          9-[i2 5-dichlorophenyl]methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid
          9-[(2,6-dichlorophenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacelic acid
          9-[(2-phenoxyphenyi)methyi]-5-carbamoyi-1-chlorocarbazol-4-yi]oxyacetic acid
          9-[(3-phenoxyphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid
10
          9-[(2-fluorophenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid
          9-[(3-fluorophenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl)oxyacetic acid.
          9-[(4-fluorophenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl}oxyacetic acid-
          9-{(2-chlorophenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid;
          9-[(3-chlorophenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl}oxyacetic acid.
15
          9-[(2-bromophenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl|oxyacetic acid
          9-[(3-bromophenyi)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid
          9-[(2-iodophenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid
          9-[(3-iodophenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid:
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          9-[(2-acetamidophenyi)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid.
          9-[(3-acetamidophenyi)methyi]-5-carbamoyi-1-chlorocarbazol-4-yi]oxyacetic acid
          9-[(2-carbamoylphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid,
          9-[(3-carbamoylphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid
          9-[(2-methylsulfonylphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid
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          9-[(3-methylsulfonylphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid
          9-[(2-methylphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid
          9-[(3-methylphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid.
          9-[(2-ethylphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl}oxyacetic acid
          9-[(3-ethylphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid
          9-[(2-trifluoromethylphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid.
30
          9-[(3-trifluoromethylphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid
          9-[(2-methoxyphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid.
          9-{(cyclopropyi)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid
          9-[(cyclobutyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid.
          9-[(cyclopentyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid.
35
          9-[(cyclohexyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid
          9-[13-methoxyphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid.
          9-[(2-ethoxyphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacelic acid
          9-[(3-ethoxyphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid
40
          9-[(2-trifluoromethoxyphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl}oxyacetic acid
          9-[{3-trifluoromethoxyphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid.
          9-[(2-diffuoromethoxyphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl}oxyacetic acid
          9-{(3-difluoromethoxyphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid.
          9-[(2-cyanophenyl)meihyl]-5-carbamoyl-1-chlorocarbazol-4-yl}oxyacetic acid.
45
          9-[(3-cyanophenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid-
          9-[(4-cyanophenyi)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid.
          9-[(2-pyridyi)methyi]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid.
          9-[(3-pyridyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid:
          9-[(2-furyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid:
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          9-[(3-furyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid:
          9-[12-thienyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid.
          9-[(3-thienyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid.
          9-[(2-benzylphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid.
          9-[i3-benzylphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacelic acid,
          9-[(2-benzoylphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid:
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          9-[(3-benz ylph nyl)methyl]-5-carbamoyl-1-chlorocarbaz I-4-yl]oxyacetic acid:
          9-[(2-benzyloxyphenyl)methyl]-5-carbamoyi-1-chlorocarbazol-4-yl]oxyacetic acid-
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9-[(3-benzyloxyphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyac tic acid.

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9-[(4-benzyl xyphenyl)methyl]-5-carbamoyl-1-chl rocarbazol-4-yl]oxyacetic acid:
           9-[(2-phenylph_nyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid:
           9-[i3-phenylphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid:
           9-[(1-naphthyl]methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid:
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           9-[(2-naphthyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl)oxyacetic acid:
           9-[(2.3-difluorophenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid:
           9-[(2.4-diffuorophenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-vl}oxyacetic acid:
           9-[(2.5-difluorophenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid.
           9-[(2.6-difluorophenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid:
           9-ft3 4-difluorophenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid
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           9-[(3.5-difluorophenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl)oxyacetic acid
           9-[(2.3.4-trifluorophenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl)oxyacetic acid.
           9-[(2.3.5-Influorophenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid:
           9-[(2.3.6-trifluorophenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl}oxyacetic acid
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           9-f(2.4,5-trifluorophenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid.
           9-[(2.4.6-trifluorophenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid:
           9-[(3,4,5-trifluorophenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl}oxyacetic acid.
           9-[(pentafluorophenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid:
           9-[(2,3-dichlorophenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid:
20
           9-[i2.4-dichlorophenyl]methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid.
           9-[i2.5-dichlorophenyl]methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid
           9-[(2,6-dichlorophenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid:
           9-[(2-phenoxyphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid:
           9-[i3-phenoxyphenyl]methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid:
25
          9-[(2-fluorophenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid.
          9-[i3-fluorophenyi)methyl]-5-carbamoyi-3-fluorocarbazol-4-yl]oxyacetic acid.
          9-[(4-fluorophenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl}oxyacetic acid.
          9-[i2-chlorophenyl]methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid.
          9-[(3-chlorophenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid.
30
          9-[(2-bromophenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl)oxyacetic acid.
          9-[(3-bromophenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-vl}oxyacetic acid:
          9-[(2-iodophenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl}oxyacetic acid:
          9-[(3-iodophenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-ylfoxyacetic acid:
          9-[12-acetamidophenyl]methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid;
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          9-[(3-acetamidophenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-vlloxyacetic acid:
          9-[(2-carbamoylphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid:
          9-[(3-carbamoylphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid,
          9-[(2-methylsulfonylphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid
          9-[(3-methylsulfonylphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid
40
          9-[(2-methylphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid:
          9-[(3-methylphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl}oxyacetic acid:
          9-f(2-ethylphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid,
          9-[(3-ethylphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid,
          9-[(2-trifluoromethylphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl}oxyacetic acid:
45
          9-[(3-Influoromethylphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl}oxyacetic acid.
          9-[(2-methoxyphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid;
          9-[(cyclopropyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid:
          9-[(cyclobutyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid.
          9-(icyclopentyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl}oxyacetic acid.
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          9-[(cyclohexyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid.
          9-[(3-methoxyphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid;
          9-{(2-ethoxyphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-ylloxyacetic acid:
          9-[13-ethoxyphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl|oxyacetic acid
          9-[(2-trifluoromethoxyphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid:
55
          9-[(3-trifluoromethoxyphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid:
          9-[(2-diffu romethoxyphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid:
         9-[(3-difluoromethoxyphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid:
         9-[(2-cyanoph nyl)m thyl)-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid:
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9-[i3-cyanophenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid.
           9-[(4-cyanophenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl}oxyacetic acid.
           9-[12-pyridyl]methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid.
           9-[(3-pyridyl)methyl]-5-carbamovi-3-fluorocarbazol-4-vi)oxyacetic acid.
           9-[(2-furyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid.
           9-[(3-furyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid:
           9-[(2-thienyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid.
           9-[i3-thienyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl}oxyacetic acid.
           9-[i2-benzylphenyl)methyl]-5-carbamovl-3-fluorocarbazol-4-vi)oxyacetic acid-
 10
           9-[(3-benzylphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl)oxyacetic acid:
           9-[(2-benzoylphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid:
           9-[(3-benzoylphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid:
           9-[i2-benzyloxyphenyl]methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid:
           9-[i3-benzyloxyphenyl]methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid.
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           9-[(4-benzyloxyphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl)oxyacetic acid.
           9-[(2-phenylphenyl)methyl]-5-carbamovl-3-fluorocarbazol-4-vl}oxvacetic acid-
           9-[(3-phenylphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl}oxyacetic acid
           9-[(1-naphthyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid.
           9-[(2-naphthyl)methyl]-5-carbamoyi-3-fluorocarbazol-4-yl]oxyacetic acid.
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           9-[(2,3-difluorophenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid:
           9-[(2,4-difluorophenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-ylloxyacetic acid:
           9-{(2.5-difluorophenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid.
           9-[(2.6-diffuorophenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid
           9-[(3.4-difluorophenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid
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           9-[(3.5-difluorophenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid.
           9-[(2.3.4-trifluorophenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid.
           9-[(2.3 5-trifluorophenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl}oxyacetic acid:
           9-[(2 3 6-trifluorophenyl)methyl)-5-carbamoyl-3-fluorocarbazol-4-ylloxyacetic acid:
          9-[(2.4 5-trifluorophenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl}oxyacetic acid,
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          9-[12 4 6-trifluorophenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl}oxyacetic acid,
          9-[(3 4 5-trifluorophenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid:
          9-[(pentafluorophenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid.
           9-[(2,3-dichlorophenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid.
          9-[12.4-dichlorophenyl]methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid;
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          9-[12.5-dichlorophenyl]methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid;
          9-[(2.6-dichlorophenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl}oxyacetic acid.
          9-[(2-fluoro-3-trifluoromethylphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid.
          9-[(2-fluoro-5-trifluoromethylphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid:
          9-[(2-fluoro-6-trifluoromethylphenyl)methyl-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid,
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          9-[(3-fluoro-5-trifluoromethylphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid:
          9-[i4-fluoro-2-trifluoromethylphenyl]methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid:
          9-[3-(2-fluorophenoxy)methyl]-5-carbamoyl-1-fluorocarbazol-4-ylloxyacetic acid.
          9-[3-(4-fluorophenoxy)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl|oxyacetic acid
          9-[(2-fluoro-3-methylphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid.
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          9-[(3-chloro-2-fluorophenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid.
          9-[(2-chloro-6-fluorophenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl}oxyacetic acid.
          9-[(2-bromo-5-fluorophenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid.
          9-[i1-bromo-2-naphthylphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid.
          9-(12-methyl-l-naphthylphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid:
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          9-[i6-methyl-2-naphthylphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl}oxyacetic acid:
          9- [(2-((phenylsulfonyl)methyl)phenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid.
          9-[(1-fluorenylmethyl]-5-carbamoyl-1-fluorocarbazol-4-yl}oxyacetic acid.
          9-[(2-fluoro-3-trifluoromethylphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid:
          9-[(2-fluoro-5-trifluoromethylphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid;
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          9-[(2-fluoro-6-trifluoromethylphenyl)methyl-5-carbamoyl-1-chlorocarbazol-4-vl}oxyacetic acid:
          9-{(3-fluoro-5-trifluoromethylphenyl)methyl]-5-carbamoyl-1-chlorocarbaz I-4-yl}oxyacetic acid,
          9-[14-fluoro-2-trifluoromethylphenyl)methyl]-5-carbarnoyl-1-chlorocarbazol-4-yl]oxyacetic acid:
          9-[14-fluoro-3-trifluoromethylphenyl]methyl]-5-carbamoyi-1-chlorocarbazol-4-yl]oxyacetic acid;
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9-[3-(2-flu_rophenoxy)methyl]-5-carbamoyl-1-chlorocarbaz |-4-yl]oxyacetic acid.
          9-[3-(4-fluorophenoxy)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid.
          9-[(2-fluoro-3-methylphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid
          9-[(3-chloro-2-fluorophenyi)methyl]-5-carbamoyl-1-chlorocarbazol-4-yi)oxyacetic acid:
          9-[(2-chloro-6-fluorophenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid:
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          9-[(2-bromo-5-fluorophenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid:
          9-[(1-bromo-2-naphthylphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid:
          9-[(2-methyl-1-naphthylphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl[oxyacetic acid:
          9-[i6-methyl-2-naphthylphenyl)methyl]-5-carbarnoyl-1-chlorocarbazol-4-yl]oxyacetic acid;
          9-[(2-((phenylsulfonyl)methyl)phenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid
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          9-{(1-fluorenylmethyl)-5-carbamoyl-1-chlorocarbazol-4-yl}oxyacetic acid.
          9-{(2-fluoro-3-trifluoromethylphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid.
          9-[(2-fluoro-5-trifluoromethylphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid.
          9-[(2-fluoro-6-trifluoromethylphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl}oxyacetic acid,
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          9-[(3-fluoro-5-trifluoromethylphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid:
          9-[(4-fluoro-2-trifluoromethylphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid
          9-{(4-fluoro-3-trifluoromethylphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid
          9-[3-(2-fluorophenoxy)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid
          9-[3-(4-fluorophenoxy)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid
          9-[(2-fluoro-3-methylphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid:
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          9-[(3-chloro-2-fluorophenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid:
          9-[(2-chloro-6-fluorophanyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid
          9-[(2-bromo-5-fluorophenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl}oxyacetic acid:
          9-[(1-bromo-2-naphthylphenyl)methyl]-5-carbamoyi-3-fluorocarbazol-4-yl]oxyacetic acid.
25
          9-[12-methyl-1-naphthylphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid
          9-[16-methyl-2-naphthylphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid.
          9-[(2-((phenylsulfonyl)methyl)phenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid.
          9-[[1-fluorenylmethyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid.
          9-[(2-thiophenoxymethylphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid;
          9-[(3-thiophenoxymethylphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:
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          9-[(4-thiophenoxymethylphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-methyl-9-oxo-9H-xanthenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid,
          9-[(2-methyl-9-oxo-9H-thioxanthenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          9-[(2-phenoxyphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester:
          9-[(3-phenoxyphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
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          9-[(2-fluorophenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-((3-fluorophenyl)methyl[-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(4-fluorophenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester:
          9-[(2-chlorophenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester:
          9-[(3-chlorophenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester:
40
          9-[(2-bromophenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester;
          9-[(3-bromophenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(2-iodophenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(3-iodophenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(2-acetamidophenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
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          9-[(3-acetamidophenyl)methyl]-5-carbamoyi-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester
          9-[(2-carbamoylphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester:
          9-[(3-carbamoylphenyl)methyt]-5-carbamoyl-1-fluorocarbazol-4-yl}oxyacetic acid methyl ester:
          9-[(2-methylsullonylphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(3-methylsulfonylphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester
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          9-[(2-methylphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester:
          9-[(3-methylphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester:
          9-[(2-ethylphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(3-ethylphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(2-trifluoromethylphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
55
          9-[(3-Influoromethylphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl}oxyacetic acid methyl ester.
          9-[(2-methoxyphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl est it.
          9-(icyclopropyi)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
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9-[(cyclobulyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl est ir
          9-[(cyclopentyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester
          9-[(cyclonexyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(3-methoxyphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(2-ethoxyphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(3-eihoxyphenyl)melhyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[¡2-trifluoromethoxyphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester:
          9-[(3-trifluoromethoxyphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester:
          9-[(2-difluoromethoxyphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl}oxyacetic acid methyl ester.
          9-[(3-difluoromethoxyphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester
10
          9-[(2-cyanophenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester:
          9-[(3-cyanophenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester
          9-[(4-cyanophenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester
          9-[(2-pyridyl)methyl]-5-carbarnoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester
          9-[(3-pyridyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
15
          9-[(2-furyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester
          9-[(3-furyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester:
          9-[(2-thienyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(3-thienyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(2-benzylphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester
20
          9-[(3-benzylphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(2-benzoylphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester
          9-[(3-benzoylphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(2-benzyloxyphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
25
          9-[(3-benzyloxyphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester
          9-[(4-benzyloxyphenyl)methyl]-5-carbamoyi-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester
          9-[(2-phenylphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(3-phenylphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(1-naphthyl]methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacelio acid methyl esler:
          9-[(2-naphthyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester
30
          9-[(2,3-difluorophenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester
          9-[(2.4-difluorophenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(2.5-difluorophenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl|oxyacetic acid methyl ester
          9-[(2.6-difluorophenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester
          9-[(3,4-difluorophenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester
35
          9-[(3.5-difluorophenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester
          9-[(2 3 4-trifluorophenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester:
          9-[12,3,5-trifluorophenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester
          9-[(2.3 6-trifluorophenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
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          9-[(2.4 5-trifluorophenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(2 4 6-trifluorophenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester:
          9-[(3.4.5-trifluorophenyl)methyl] -5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester
          9-[(pentafluorophenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl|oxyacetic acid methyl ester.
          9-[(2.3-dichlorophenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
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          9-[(2 4-dichlorophenyl)methyl]-5-carbamoyi-1-fluorocarbazol-4-yi]oxyacetic acid methyl ester.
          9\hbox{-}\{(2.5\hbox{-}dichlorophenyl)methyl]\hbox{-}5\hbox{-}carbamoyl\hbox{-}1\hbox{-}fluorocarbazol\hbox{-}4\hbox{-}yl]oxyacetic acid methyl ester.}
          9-[(2.6-dichlorophenyi)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester:
          9-[(2-phenoxyphenyi)methyi]-5-carbamoyl-1-chlorocarbazol-4-yi]oxyacetic acid methyl ester.
          9-[(3-phenoxyphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yljoxyacetic acid methyl ester
          9-[(2-fluorophenyl)methyl]-5-carbamoyi-1-chlorocarbazoi-4-yl]oxyacetic acid methyl ester.
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          9-[(3-fluorophenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester
          9-[(4-fluorophenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester
          9-[(2-chlorophenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester:
          9-[(3-chlorophenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester:
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          9-[(2-bromophenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(3-bromophenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl st r.
          9-[(2-rodophenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid m thyl ester
          9-[(3-iodophenyl)methyl]-5-carbamoyl-1-chlorocarbaz il-4-yl]oxyacetic acid methyl est ir
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9-[(2-acetamidophenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl est r.
          9-[(3-acetamidophenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(2-carbamoylphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester:
          9-[(3-carbamoylphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester.
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          9-[(2-methylsulfonylphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl)oxyacetic acid methyl ester.
          9-[(3-methylsuttonylphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl|oxyacetic acid methyl ester.
          9-f(2-methylphenyl)methyl)-5-carbamoyl-1-chlorocarbazol-4-yl)oxyacetic acid methyl ester:
          9-[(3-methylphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl)oxyacetic acid methyl ester:
          9-[(2-ethylphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester:
          9-[(3-ethylphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester.
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          9-[(2-trifluoromethylphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(3-trifluoromethylphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl}oxyacetic acid methyl ester.
          9-[(2-methoxyphenyl)methyl]-5-carbarnoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester
          9-[(cyclopropyl)methyl]-5-carbamoyi-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester;
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          9-[(cyclobutyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester:
          9-[(cyclopentyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(cyclohexyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester
          9-[(3-methoxyphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester:
          9-[(2-ethoxyphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester:
          9-[(3-ethoxyphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester.
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          9-[(2-trifluoromethoxyphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester
          9-{(3-trifluoromethoxyphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(2-difluoromethoxyphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(3-difluoromethoxyphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester;
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          9-[(2-cyanophenyl)methyl]-5-carbarnoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester:
          9-[13-cyanophenyl]methyl]-5-carbamoyi-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester,
          9-[(4-cyanophenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-ylloxyacetic acid methyl ester.
          9-{(2-pyridyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl}oxyacetic acid methyl ester;
          9-[(3-pyridyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester:
          9-[(2-furyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester:
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          9-[(3-furyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester;
          9-[(2-thienyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester:
          9-[(3-thienyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(2-benzylphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester;
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          9-{(3-benzylphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(2-benzoylphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester:
          9-[(3-benzoylphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(2-benzyloxyphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester;
          9-[(3-benzyloxyphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester.
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          9-[(4-benzyloxyphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester:
          9-{(2-phenylphenyl)methyl}-5-carbamoyl-1-chlorocarbazol-4-yl}oxyacetic acid methyl ester.
          9-{(3-phenylphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl)oxyacetic acid methyl ester.
          9-[(1-naphthyl)methyl)-5-carbamoyl-1-chlorocarbazol-4-yl)oxyacetic acid methyl ester.
          9-[(2-naphthyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl)oxyacetic acid methyl ester.
          9-[(2,3-difluorophenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl)oxyacetic acid methyl ester:
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          9-[(2,4-difluorophenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester:
          9-[(2,5-difluorophenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl)oxyacetic acid methyl ester:
          9-[(2.6-difluorophenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl}oxyacetic acid methyl ester.
          9-[(3,4-difluorophenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl}oxyacetic acid methyl ester.
          9-[(3,5-difluorophenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl|oxyacetic acid methyl ester,
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          9-[(2,3,4-trifluorophenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl|oxyacetic acid methyl ester
          9-(2,3,5-trifluorophenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl[oxyacetic acid methyl ester;
          9-[(2,3,6-trifluorophenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(2,4,5-trifluorophenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester.
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          9-[(2.4,6-trifluorophenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(3,4,5-tnfluorophenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(pentafluorophanyl)methyl]-5-carbamoyl-1-chl rocarbazol-4-yl}oxyac tic acid methyl ester:
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9-[(2,3-dichlorophenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl est r;

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9-[(2 4-dichlorophenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester:
          9-[i2.5-dichlorophenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester:
          9-[(2.6-dichlorophenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(2-phenoxyphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
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          9-[(3-phenoxyphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(2-fluorophenyl)mothyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester
          9-[(3-fluorophenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester
          9-[(4-fluorophenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester
          9-[(2-chlorophenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester:
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          9-[(3-chlorophenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester;
          9-[(2-bromophenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester
          9-[(3-bromophenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(2-iodophenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(3-iodophenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
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          9-[(2-acetamidophenyi)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(3-acetamidophenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(2-carbamoylphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(3-carbamoylphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester:
          9-[(2-methylsulfonylphenyl)methyl]-5-carbarnoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
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          9-[(3-methylsulfonylphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester:
          9-[(2-methylphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester:
          9-[(3-methylphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(2-ethylphenyl)methyl]-5-carbamoyl-3-fluorocarbazot-4-yl]oxyacetic acid methyl ester.
          9-[i3-ethylphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester
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          9-[(2-trifluoromethylphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl}oxyacetic acid methyl ester
          9-[(3-trifluoromethylphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl}oxyacetic acid methyl ester.
          9-[(2-methoxyphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester
          9-{(cyclopropyl)methyl)-5-carbamoyl-3-fluorocarbazol-4-yl}oxyacetic acid methyl ester
          9-[(cyclobutyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester
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          9-[(cyclopentyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(cyclohexyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(3-methoxyphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester
          9-[(2-ethoxyphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester
          9-[(3-ethoxyphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester:
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          9-[(2-trifluoromethoxyphenyl)methyl]-5-carbarnoyl-3-fluorocarbazol-4-yl|oxyacetic acid methyl ester
          9-[(3-trifluoromethoxyphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(2-difluoromethoxyphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester,
          9-[(3-difluoromethoxyphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester
          9-[(2-cyanophenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl)oxyacetic acid methyl ester-
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          9-[(3-cyanophenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl}oxyacetic acid methyl ester:
          9-{(4-cyanophenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl}oxyacetic acid methyl ester:
          9-[(2-pyridyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester
          9-((3-pyridyl)methyl[-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester
          9-[t2-furyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester
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          9-[t3-furyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(2-thienyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester
          9-[(3-thienyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(2-benzylphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl}oxyacetic acid methyl ester:
          9-[(3-benzylphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester:
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          9-[12-benzoylphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl)oxyacetic acid methyl ester:
          9-[(3-benzoylphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester
          9-[(2-benzyloxyphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(3-benzyloxyphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester
          9-[(4-benzyloxyphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
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          9-[(2-phenylphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester:
          9-(13-phenylphenyl)methyl)-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl est ir:
          9-[(1-naphthyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yi)oxyacetic acid methyl ster.
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9-[(2-naphthyl)methyl]-5-carbamoyl-3-fluorocarbaz I-4-yl]oxyacetic acid methyl ester

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9-[(2.3-difluorophenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
            9-[(2,4-difluorophenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
            9-(12,5-difluorophenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
            9-[12.6-difluorophenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester:
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            9-[(3,4-difluorophanyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl|oxyacetic acid methyl ester:
            9-[(3,5-difluorophenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl|oxyacetic acid methyl ester:
            9-[(2.3,4-trifluorophenyi)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester,
            9-[(2,3,5-trifluorophenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl}oxyacetic acid methyl ester:
            9-[(2,3,6-trifluorophenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester;
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            9-[(2,4.5-trifluorophenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester
            9-[(2,4,6-trifluorophenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester:
            9-[(3.4.5-trifluorophenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
            9-[(pentafluorophenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester:
            9-[(2.3-dichlorophenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester:
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            9-[i2.4-dichlorophenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
            9-[(2,5-dichlorophenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
            9-[(2,6-dichlorophenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
           9-[(2-fluoro-3-trifluoromethylphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester:
           9-[(2-fluoro-5-trifluoromethylphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester:
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           9-[(2-fluoro-6-trifluoromethylphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
           9-[(3-fluoro-5-trifluoromethylphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
           9-[(4-fluoro-2-trifluoromethylphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester:
           9-[(4-fluoro-3-trifluoromethylphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester
           9-[3-(2-fluorophenoxy)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
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           9-[3-(4-fluorophenoxy)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
           9-[(2-fluoro-3-methylphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl}oxyacetic acid methyl ester:
           9-[(3-chloro-2-fluorophenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester
           9-[(2-chloro-6-fluorophenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester
           9-[(2-bromo-5-fluorophenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
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           9-[(1-bromo-2-naphthylphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester:
           9-[(2-methyl-1-naphthylphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester:
           9-[(6-methyl-2-naphthylphenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester,
           9-[12-((phenylsulfonyl)methyl)phenyl)methyl]-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacelic acid methyl ester.
           9-[(1-fluorenylmethyl]-5-carbamoyl-I-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
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           9-[(2-fluoro-3-trifluoromethylphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester.
           9-[12-fluoro-5-trifluoromethylphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester,
          9-[(2-fluoro-6-trifluoromethylphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester:
          9-[(3-fluoro-5-trifluoromethylphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(4-fluoro-2-trifluoromethylphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester:
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          9-[(4-fluoro-3-trifluoromethylphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl}oxyacetic acid methyl ester:
          9-[3-(2-fluorophenoxy)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[3-(4-fluorophenoxy)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester:
          9-[i2-fluoro-3-methylphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yi]oxyacetic acid methyl ester.
          9-[(3-chloro-2-fluorophenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester,
45
          9-[i2-chloro-6-fluorophenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester:
          9-[(2-bromo-5-fluorophenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester:
          9-{(1-bromo-2-naphthylphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl{oxyacetic acid methyl ester:
          9-[(2-methyl-1-naphthylphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester:
          9-[(6-methyl-2-naphthylphenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester:
50
          9-[(2-((phenylsulfonyl)methyl)phenyl)methyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester:
          9-[(1-fluorenylmethyl]-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(2-fluoro-3-trifluoromethylphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester,
          9-[(2-fluoro-5-trifluoromethylphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(2-fluoro-6-trifluoromethylphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl}oxyacetic acid methyl ester:
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          9-f(3-fluoro-5-trifluoromethylphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester:
          9-[(4-fluoro-2-trifluoromethylphenyl)m thyl]-5-carbamoyl-3-fluorocarbaz I-4-yl]oxyacetic acid methyl ester;
          9-[(4-fluoro-3-trifluoromethylphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyac tic acid methyl ester;
          9-{3-(2-fluorophenoxy)methyl)-5-carbamoyl-3-fluorocarbazol-4-yljoxyac tic acid m thyl ester;
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9-[3-(4-fluorophenoxy)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ster-
             9-[(2-fluoro-3-methylphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester
             9-[(3-chloro-2-fluorophenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
             9-[(2-chloro-6-fluorophenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester
             9-[(2-bromo-5-fluorophenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
   5
             9-[(1-bromo-2-naphthylphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl oster
             9-[(2-methyl-1-naphthylphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester
             9-[(6-methyl-2-naphthylphenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
             9-[(2-((phenylsulfonyl)methyl)phenyl)methyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
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             9-[(1-fluorenylmethyl]-5-carbamoyl-3-fluorocarbazol-4-yl]oxyacetic acid methyl ester
             9-[(2-phenoxyphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yljoxyacetic acid methyl ester
             9-{(3-phenoxyphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl}oxyacetic acid methyl ester.
             9-[(2-fluorophenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid methyl ester
            9-[(3-fluorophenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid methyl ester
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            9-[(4-fluorophenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
            9-[(2-chlorophenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid methyl ester
            9-[(3-chlorophenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
            9-[(2-bromophenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid methyl ester
            9-[(3-bromophenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid methyl ester
  20
            9-[(2-iodophenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid methyl ester
            9-[(3-iodophenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl}oxyacetic acid methyl ester:
            9-[(2-acetamidophenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
            9-[(3-acetamidophenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
            9-[(2-carbamoylphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
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            9-[i3-carbamoylphenyi]methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
           9-[i2-methylsulfonylphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid methyl ester
           9-[(3-methylsulfonylphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl}oxyacetic acid methyl ester:
           9-[(2-methylphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yljoxyacetic acid methyl ester
           9-[(3-methylphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid methyl ester:
           9-[(2-ethylphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
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           9-[(3-ethylphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid methyl ester
           9-[(2-trifluoromethylphenyi)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl}oxyacetic acid methyl ester
           9-[(3-Influoromethylphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid methyl ester
           9-[(2-mothoxyphenyl)mothyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid methyl ester
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           9-[(cyclopropyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid methyl ester
           9-[(cyclobutyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid methyl ester
           9-{(cyclopentyl)methyl|-5-carbamoyl-2-fluorocarbazol-4-yl|oxyacetic acid methyl ester
           9-[(cyclohexyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid methyl ester
           9-[(3-methoxyphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid methyl ester
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           9-[(2-ethoxyphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl}oxyacetic acid methyl ester
           9-[(3-ethoxyphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl|oxyacetic acid methyl ester
           9-[(2-trifluoromethoxyphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
           9-[(3-trifluoromethoxyphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid methyl ester
          9-[(2-difluoromethoxyphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl}oxyacetic acid methyl ester:
          9-[(3-difluoromethoxyphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl}oxyacetic acid methyl ester
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          9-[(2-cyanophenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl oxyacetic acid methyl ester
          9-[(3-cyanophenyl)melhyl]-5-carbamoyl-2-fluorocarbazol-4-yl loxyacetic acid methyl ester.
          9-[(4-cyanophenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl|oxyacetic acid methyl ester
          9-[12-pyridyl]methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid methyl ester
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          9-[i3-pyridyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(2-furyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(3-furyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid methyl ester
          9-[12-thienyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(3-thienyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(2-benzylphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl}oxyacetic acid methyl ester
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          9-[(3-benzylphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl|oxyacetic acid methyl ester
          9-[(2-benzoylphenyl)m thyl]-5-carbamoyl-2-flu rocarbaz I-4-yl]oxyacetic acid methyl ester
          9-[(3-benzoylphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid methyl ester
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9-[(2-benzyloxyphenyl)methyl|-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
           9-[(3-benzyloxyphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid m thyl ester.
           9-[(4-benzyloxyphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
           9-[(2-phenylphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid methyl ester:
           9-[(3-phenylphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
           9-[(1-naphthyl)melhyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
           9-[(2-naphthyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid methyl ester
           9-[(2,3-difluorophenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid methyl ester:
           9-[(2.4-diffuorophenyl)methyl]-5-carbarnoyl-2-fluorocarbazol-4-yl]oxyacetic acid methyl ester:
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           9-[i2.5-difluorophenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl|oxyacetic acid methyl ester:
           9-[(2,6-difluorophenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl|oxyacetic acid methyl ester.
           9-[(3.4-difluorophenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl}oxyacetic acid methyl ester:
           9-[(3.5-difluorophenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl/oxyacetic acid methyl ester
           9-[(2.3.4-trifluorophenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl}oxyacetic acid methyl ester.
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           9-[(2,3,5-trifluorophenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
           9-[(2.3.6-trifluorophenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
           9-[(2,4,5-trifluorophenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid methyl ester:
           9-[12.4,6-trifluorophenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-ylloxyacetic acid methyl ester.
           9-[(3.4,5-trifluorophenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yljoxyacetic acid methyl ester.
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           9-[(pentafluorophenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
           9-[(2,3-dichlorophenyl) ethyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid methyl ester:
          9-[(2,4-dichlorophenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid methyl ester
          9-[(2,5-dichlorophenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid methyl ester:
          9-[(2,6-dichlorophenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid methyl ester:
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          9-[(2-phenoxyphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester
          9-[(3-phenoxyphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(2-fluorophenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl)oxyacetic acid methyl ester.
          9-[(3-fluorophenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(4-fluorophenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl)oxyacetic acid methyl ester:
          9-[(2-chlorophenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester:
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          9-[(3-chlorophenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-ylloxyacetic acid methyl ester;
          9-[(2-bromophenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl)oxyacetic acid methyl ester:
          9-[(3-bromophenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester:
          9-[(2-iodophenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester;
          9-[(3-iodophenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester:
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          9-[(2-acetamidophenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(3-acetamidophenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester
          9-[(2-carbamoylphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(3-carbamoylphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester.
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          9-[(2-methylsulfonylphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-{(3-methylsulfonylphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl}oxyacetic acid methyl ester.
          9-{(2-methylphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl)oxyacetic acid methyl ester.
          9-[(3-methylphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester:
          9-[(2-ethylphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester.
45
          9-[(3-ethylphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl)oxyacetic acid methyl ester.
          9-[(2-trifluoromethylphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester,
          9-[(3-trifluoromethylphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester;
          9-[(2-methoxyphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(cyclopropyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester
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          9-[(cyclobutyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(cyclopentyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester:
          9-[(cyclohexyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(3-methoxyphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl}oxyacetic acid methyl ester;
          9-[(2-ethoxyphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester;
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          9-[(3-ethoxyphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl)oxyacetic acid methyl ester:
          9-[(2-trifluoromethoxyphenyl)methyl]-5-carbamoyl-2-chl rocarbazol-4-yl]oxyac tic acid methyl ester:
          9-[(3-trifluorometh xyphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-{(2-diffu rom thoxyphenyl)methyl]-5-carbamoyl-2-chl rocarbaz I-4-yl]oxyacetic acid methyl ester;
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9-[(3-difluoromethoxyphenyi)methyl]-5-carbamoyi-2-chlorocarbazol-4-yi]oxyacetic acid methyl ester
          9-[12-cyanophenyl]methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester
          9-[(3-cyanophenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester
          9-[14-cyanophenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester.
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          9-[(2-pyridyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester:
          9-[(3-pyridyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(2-furyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester
          9-[(3-furyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester
          9-[(2-thienyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(3-thienyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester.
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          9-((2-benzylphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester
          9-[(3-benzylphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(2-benzoylphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl}oxyacetic acid methyl ester.
          9-[(3-benzoylphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester.
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          9-[(2-benzyloxyphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester
          9-[(3-benzyloxyphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[14-benzyloxyphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(2-phenylphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[13-phenylphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester
          9-[11-naphthyl]methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester.
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          9-[(2-naphthyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(2.3-difluorophenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester:
          9-[(2.4-difluorophenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl}oxyacetic acid methyl ester.
          9-[(2,5-difluorophenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester.
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          9-[(2,6-difluorophenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester
          9-[(3.4-diffuorophenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl)oxyacetic acid methyl ester:
          9-[(3.5-difluorophenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(2,3,4-trifluorophenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester
          9-{(2,3.5-trifluorophenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(2 3 6-trifluorophenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl|oxyacetic acid methyl ester
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          9-[(2.4.5-trifluorophenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(2.4.6-trifluorophenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(3,4 5-trifluorophenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester
          9-[(pentafluorophenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester
          9-[12,3-dichlorophenyl]methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester.
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          9-[12.4-dichlorophenyl]methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester:
          9-[(2.5-dichlorophenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester:
          9-[12.6-dichlorophenyl]methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester
          9-[(2-fluoro-3-trifluoromethylphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid methyl ester:
          9-[12-fluoro-5-trifluoromethylphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid methyl ester:
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          9-{i2-fluoro-6-trifluoromethylphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid methyl ester:
          9-[(3-fluoro-5-trifluoromethylphenyl) methyl]-5-carbamoyl-2-fluorocarbazol-4-yl] oxyacetic acid methyl ester.\\
          9-[¡4-fluoro-2-trifluoromethylphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl}oxyacetic acid methyl ester:
          9-14-fluoro-3-trifluoromethylphenyl)methyll-5-carbamoyl-2-fluorocarbazol-4-ylloxyacetic acid methyl ester;
          9-[3-(2-fluorophenoxy)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid methyl ester
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          9-[3-(4-fluorophenoxy)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid methyl ester
          9-[(2-fluoro-3-methylphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl[oxyacetic acid methyl ester:
          9-((3-chloro-2-fluorophenyl) methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(2-chloro-6-fluorophenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(2-bromo-5-fluorophenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid methyl ester,
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          9-[(1-bromo-2-naphthylphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(2-methyl-1-naphthylphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(6-methyl-2-naphthylphenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl)oxyacetic acid methyl ester:
          9-[12-((phenylsulfonyl)methyl)phenyl)methyl]-5-carbamoyl-2-fluorocarbazol-4-yl|oxyacelic acid methyl ester.
          9-[(1-fluorenylmethyl]-5-carbamoyl-2-fluorocarbazol-4-yl]oxyacetic acid methyl ester
55
          9-[(2-fluoro-3-trifluoromethylphenyl)methyl]-5-carbamoyi-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester.
          9-\{i2-fluoro-5-trifluoromethylph\ nyl) methyl\}-5-carbamoyl-2-chlorocarbazol-4-yl] oxyacetic\ acid\ methyl\ ester.
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9-[(2-fluoro-6-trifluoromethylphenyl)methyl]-5-carbamoyl-2-chl rocarbazol-4-yl]oxyacetic acid methyl ester.

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9-[13-fluoro-5-trifluoromethylphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl}oxyacetic acid methyl ester
           9-[i4-fluoro-2-trifluoromethylphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester,
           9-[(4-fluoro-3-trifluoromethylphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester.
           9-[3-(2-fluorophenoxy)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester
 5
           9-[3-(4-fluorophenoxy)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester.
           9-[(2-fluoro-3-methylphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester.
           9-[(3-chloro-2-fluorophenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester.
           9-[(2-chloro-6-fluorophenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester.
           9-[(2-bromo-5-fluorophenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester.
 10
           9-[(1-bromo-2-naphthylphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester:
           9-[(2-methyl-1-naphthylphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester
           9-[(6-methyl-2-naphthylphenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester.
           9-[(2-((phenylsulfonyl)methyl)phenyl)methyl]-5-carbamoyl-2-chlorocarbazol-4-yl}oxyacetic acid methyl ester,
           9-[(1-fluorenylmethyl]-5-carbamoyl-2-chlorocarbazol-4-yl]oxyacetic acid methyl ester.
 15
           9-benzyl-4-phenylsulfonamidoylmethyloxy-carbazole-5-carboxamide.
           9-benzyl-4-phenylmethylsulfonamidoylmethyloxy-carbazole-5-carboxamide.
           9-benzyl-4-(2-methylphenylsulfonamidoylmethyloxy)-carbazole-5-carboxamide.
           9-benzyl-4-(naphth-2-ylsulfonamidoylmethyloxy)-carbazole-5-carboxamide.
           9-benzyl-4-trifluoromethylsulfonamidoylmethyloxy-carbazole-5-carboxamide.
20
      [0050] Further typical examples of intermediates of formula I which are useful in the present invention include:
           3-(3-Carbomethoxy-2-chloroanilino)cyclohex-2-en-1-one
           3-(3-Carbomethoxy-2-bromoanilino)cyclohex-2-en-1-one.
25
           3-(3-Carbomethoxy-2-iodoanilino)cyclohex-2-en-1-one.
           3-(3-Carbomethoxy-2-chloroanilino)-4-methyl-cyclohex-2-en-1-one.
           3-(3-Carbomethoxy-2-bromoanilino)-4-methyl-cyclohex-2-en-1-one.
           3-(3-Carbomethoxy-2-iodoanilino)-4-methyl-cyclohex-2-en-1-one.
           3-(3-Carbomethoxy-2-chloroanilino)-4-phenyl-cyclohex-2-en-1-one.
30
           3-(3-Carbomethoxy-2-bromoanilino)-4-phenyl-cyclohex-2-en-1-one.
           3-(3-Carbomethoxy-2-iodoanilino)-4-phenyl-cyclohex-2-en-1-one.
           3-(3-Carbomethoxy-2-chloroanilino)-4-ethyl-cyclohex-2-en-1-one.
           3-(3-Carbomethoxy-2-bromoanilino)-4-ethyl-cyclohex-2-en-1-one.
           3-(3-Carbornethoxy-2-iodoanilino)-4-ethyl-cyclohex-2-en-1-one
           3-(3-Carbomethoxy-2-chloroanilino)-4-isopropyl-cyclohex-2-en-1-one:
35
          3-(3-Carbomethoxy-2-bromoanilino)-4-isopropyl-cyclohex-2-en-1-one:
          3-(3-Carbomethoxy-2-iodoanilino)-4-isopropyl-cyclohex-2-en-1-one.
          3-(3-Carbomethoxy-2-chloroanilino)-4-pentyl-cyclohex-2-en-1-one
          3-(3-Carbomethoxy-2-bromoanilino)-4-pentyl-cyclohex-2-en-1-one,
40
          3-(3-Carbomethoxy-2-iodoanilino)-4-pentyl-cyclohex-2-en-1-one
          3-(3-Carbornethoxy-2-chloroanilino)-4-(4'-chlorophenyl)-cyclohex-2-en-1-one.
          3-(3-Carbomethoxy-2-bromoanilino)-4- (4'-chlorophenyl)-cyclohex-2-en-1-one.
          3-(3-Carbomethoxy-2-iodoanilino)-4-(4'-chlorophenyl)-cyclohex-2-en-1-one.
          5-carbomethoxy-1.2-dihydro-9H-carbazol-4(3H)-one:
45
          5-carbomethoxy-2-methyl-1.2-dihydro-9H-carbazol-4(3H)-one;
          5-carbomethoxy-2-ethyl-1,2-dihydro-9H-carbazol-4(3H)-one:
          5-carbomethoxy-2-pentyl-1.2-dihydro-9H-carbazol-4(3H)-one
          5-carbomethoxy-2-isopropyl-1.2-dihydro-9H-carbazol-4(3H)-one
          5-carbomethoxy-2-phenyl-1 2-dihydro-9H-carbazol-4(3H)-one:
50
          5-carbomethoxy-2-(4'-chlorophenyl)-1,2-dihydro-9H-carbazol-4(3H)-one.
          9-[(phenyl)methyl]-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one.
          9-[(2-phenoxyphenyl)methyl]-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one.
          9-[(3-phenoxyphenyl)methyl]-5-carbornethoxy-1,2-dihydrocarbazol-4(3H)-one:
          9-[(2-fluorophenyl)methyl]-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one:
55
          9-[(3-fluorophenyl)methyl]-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one.
          9-[(2-chlorophenyl)methyl]-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one.
          9-[(3-chlorophenyl)methyl]-5-carbomethoxy-1,2-dihydrocarbaz I-4(3H)-one.
          9-[(2-bromophenyl)methyl]-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one;
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9-[(3-bromophenyl)methyl]-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-on
          9-[(2-methylphenyl)methyl]-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one,
          9-[(3-methylphenyl)methyl]-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one;
          9-(2-cyanophenyl)methyl)-5-carbomethoxy-1_2-dihydrocarbazol-4(3H)-one
5
          9-[(3-cyanophenyl)methyl]-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one.
          9-[t2-trifluoromethylphenyl)methyl]-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one
          9-[(3-trifluoromethylphenyl)methyl]-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one.
          9-[(2-benzylphenyl)methyl]-5-carbomethoxy-1_2-dihydrocarbazol-4(3H)-one
          9-[(3-benzylphenyl)methyl]-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one
10
          9-[(2-phenylphenyl)methyl]-5-carbomethoxy-1 2-dihydrocarbazol-4(3H)-one,
          9-[(3-phenylphenyl)methyl]-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one
          9-[(2-naphthyl)methyl]-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one.
          9-[(1-naphthyl)methyl]-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one
          9-[(phenyl)methyl]-2-methyl-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one.
15
          9-[12-phenoxyphenyl)methyl]-2-methyl-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one
          9-[(3-phenoxyphenyl)methyl]-2-methyl-5-carbomethoxy-1 2-dihydrocarbazol-4(3H)-one
         9-[(2-fluorophenyl)methyl]-2-methyl-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one.
         9-[(3-fluorophenyl)methyl]-2-methyl-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one:
         9-((2-chlorophenyl)methyl]-2-methyl-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one
20
         9-[(3-chlorophenyl)methyl]-2-methyl-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one
         9-[(2-bromophenyl)methyl]-2-methyl-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one.
         9-[(3-bromophenyl)methyl]-2-methyl-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one.
         9-[(2-methylphenyl)methyl]-2-methyl-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one
          9-[(3-methylphenyl)methyl]-2-methyl-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one
25
          9-[(2-cyanophenyl)methyl]-2-methyl-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one.
         9-[(3-cyanophenyl)methyl]-2-methyl-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one:
         9-[(2-trifluoromethylphenyl)methyl]-2-methyl-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one
         9-[13-trifluoromethylphenyl)methyl]-2-methyl-5-carbomethoxy-1 2-dihydrocarbazol-4(3H)-one.
         9-[(2-benzylphenyl)methyl]-2-methyl-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one:
30
         9-[(3-benzylphenyl)methyl]-2-methyl-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one.
         9-[(2-phenylphenyl)methyl]-2-methyl-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one
         9-[(3-phenylphenyl)methyl]-2-methyl-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one
         9-[(2-naphthyl)methyl]-2-methyl-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one
         9-[(1-naphthyl)methyl]-2-methyl-5-carbomethoxy-1 2-dihydrocarbazol-4(3H)-one:
35
         9-[(phenyl)methyl]-2-ethyl-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one,
         9-[(2-phenoxyphenyl)methyl]-2-ethyl-5-carbomethoxy-1 2-dihydrocarbazol-4(3H)-one
         9-[i3-phenoxyphenyi]methyl]-2-ethyl-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one.
         9-[(2-fluorophenyl)methyl]-2-ethyl-5-carbomethoxy-1 2-dihydrocarbazol-4(3H)-one
         9-[(3-fluorophenyl)methyl]-2-ethyl-5-carbomethoxy-1.2-drhydrocarbazof-4(3H)-one
40
         9-[(2-chlorophenyl)methyl]-2-ethyl-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one
         9-[(3-chlorophenyl)methyl]-2-ethyl-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one.
         9-[(2-bromophenyl)methyl]-2-ethyl-5-carbomethoxy-1 2-dihydrocarbazol-4(3H)-one:
         9-{(3-bromophenyl)methyl]-2-ethyl-5-carbomethoxy-1 2-dihydrocarbazol-4(3H)-one.
         9-[(2-methylphenyl)methyl]-2-ethyl-5-carbomethoxy-1 2-dihydrocarbazol-4(3H)-one
45
         9-[(3-methylphenyl)methyl]-2-ethyl-5-carbomethoxy-1 2-dihydrocarbazol-4(3H)-one.
         9-[(2-cyanophenyl)methyl]-2-ethyl-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one
         9-[(3-cyanophenyl)methyl]-2-ethyl-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one.
         9-[(2-trifluoromethylphenyl)methyl]-2-ethyl-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one.
         5 9-[(3-trifluoromethylphenyl)methyl]-2-ethyl-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one:
50
         9-[(2-benzylphenyl)methyl]-2-ethyl-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one
         9-[(3-benzylphenyl)methyl]-2-ethyl-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one.
         9-[(2-phenylphenyl)methyl]-2-ethyl-5-carbomethoxy-1_2-dihydrocarbazol-4(3H)-one.
         9-[(3-phenylphenyl)methyl]-2-ethyl-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one.
         9-[(2-naphthyl)methyl]-2-ethyl-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one.
55
         9-[(1-naphthyl)methyl]-2-ethyl-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one.
         9-[(phenyl)methyl]-2-isopropyl-5-carbomethoxy-1,2-dihydrocarbazol-4(3H) -on ...
         9-[(2-phenoxyphenyl)methyl]-2-isopropyl-5-carbornethoxy-1.2-dihydrocarbazol-4(3H)-one;
         9-[(3-phenoxyphenyl)methyl]-2-isopropyl-5-carbornethoxy-1.2-dihydrocarbazol-4(3H)-one.
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9-[(2-fluorophenyl)methyl]-2-isopropyl-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one.
           9-[(3-fluorophenyl)methyl]-2-isopropyl-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one.
           9-[(2-chlorophenyl)methyl]-2-isopropyl-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one
           9-[(3-chlorophenyl)methyl]-2-isopropyl-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one.
          9-[12-bromophenyl)methyl]-2-isopropyl-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one.
          9-[(3-bromophenyl)methyl]-2-isopropyl-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one.
          9-[(2-methylphenyl)methyl]-2-isopropyl-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one,
          9-[(3-methylphenyl)methyl]-2-isopropyl-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one
          9-[(2-cyanophenyl)methyl]-2-isopropyl-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one.
 10
          9-[(3-cyanophenyl)methyl]-2-isopropyl-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one.
          9-[(2-Influoromethylphenyl)methyl]-2-isopropyl-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one
          9-[(3-trifluoromethylphenyl)methyl]-2-isopropyl-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one.
          9-fi2-benzvlphenyl)methyl]-2-isopropyl-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one.
          9-[(3-benzylphenyl)methyl]-2-isopropyl-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one,
 15
          9-[(2-phenylphenyl)methyl]-2-isopropyl-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one.
          9-[(3-phenylphenyl)methyl]-2-isopropyl-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one
          9-[(2-naphthyl)methyl]-2-isopropyl-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one.
          9-[(1-naphthyl)methyl]-2-isopropyl-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one.
          9-[(phenyl)methyl]-2-pentyl-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one:
20
          9-[(2-phenoxyphenyl)methyl]-2-pentyl-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one.
          9-[(3-phenoxyphenyl)methyl]-2-pentyl-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one.
          9-[(2-fluorophenyl)methyl]-2-pentyl-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one:
          9-[(3-fluorophenyl)methyl]-2-pentyl-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one:
          9-[(2-chlorophenyl)methyl]-2-pentyl-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one.
25
          9-[(3-chlorophenyl)methyl]-2-pentyl-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one.
          9-[(2-bromophenyl)methyl]-2-pentyl-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one.
          9-[(3-bromophenyi)methyi]-2-pentyi-5-carbomethoxy-1,2-dihydrocarbazoi-4(3H)-one.
          9-[(2-methylphenyl)methyl]-2-pentyl-5-carbomethoxy-1,2-dthydrocarbazol-4(3H)-one.
          9-[(3-methylphenyl)methyl]-2-pentyl-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one:
30
          9-[(2-cyanophenyi)methyi]-2-pentyl-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one:
          9-[(3-cyanophenyl)methyl]-2-pentyl-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one
          9-[(2-trrfluoromethylphenyl)methyl]-2-pentyl-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one:
          9-{(3-trifluoromethylphenyl)methyl]-2-pentyl-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one.
          9-[(2-benzylphenyl)methyl]-2-pentyl-5-carbomethoxy-1 2-dihydrocarbazol-4(3H)-one.
35
          9-[(3-benzylphenyl)methyl]-2-pentyl-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one.
          9-[(2-phenylphenyl)methyl]-2-pentyl-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one.
          9-[(3-phenylphenyl)methyl]-2-pentyl-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one.
          9-[(2-naphthyl)methyl]-2-pentyl-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one
          9-[(1-naphthyl)methyl]-2-pentyl-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one
40
          9-[(phenyl)methyl]-2-phenyl-5-carbornethoxy-1 2-dihydrocarbazol-4(3H)-one.
          9-[(2-phenoxyphenyl)methyl]-2-phenyl-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one.
          9-[(3-phenoxyphenyl)methyl]-2-phenyl-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one.
          9-[(2-fluorophenyl)methyl]-2-phenyl-5-carbomethoxy-1 2-dihydrocarbazol-4(3H)-one.
          9-[(3-fluorophenyl)methyl]-2-phenyl-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one.
45
          9-[(2-chlorophenyl)methyl]-2-phenyl-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one:
          9-[(3-chlorophenyl)methyl]-2-phenyl-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one.
          9-[(2-bromophenyl)methyl]-2-phenyl-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one.
          9-[(3-bromophenyl)methyl]-2-phenyl-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one.
          9-[(2-methylphenyl)methyl]-2-phenyl-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one:
50
          9-f(3-methylphenyl)methyl]-2-phenyl-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one:
          9-[(2-cyanophenyl)methyl]-2-phenyl-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one.
          9-9-[(3-cyanophenyl)methyl]-2-phenyl-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one:
          9-[(2-trifluoromethylphenyl)methyl]-2-phenyl-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one:
          9-[(3-tnfluoromethylphenyl)methyl]-2-phenyl-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one:
55
          9-[(2-benzylphenyl)methyl]-2-phenyl-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one.
         9-[(3-benzylph nyl)methyl]-2-phenyl-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-on
         9-[(2-phenylph nyl)methyl]-2-phenyl-5-carbom thoxy-1.2-dihydrocarbazol-4(3H)-one;
         9-[(3-phenylphenyl)methyl]-2-phenyl-5-carbomethoxy-1 2-dihydrocarbazol-4(3H)-one.
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9-[i2 -naphthyl]methyl]-2-phenyl-5-carbomethoxy-1,2-dihydrocarbaz I-4(3H)-one.
           9-[(1-naphthyl)methyl]-2-phenyl-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one
           9-[iphenyl]methyl]-2-(4'-chlorophenyl)-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one
           9-[(2-phenoxyphenyl)methyl]-2-(4'-chlorophenyl)-5-carbomethoxy-1 2-dihydrocarbazol-4(3H)-one.
 5
           9-[(3-phenoxyphenyl)methyl]-2-(4'-chlorophenyl)-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one
           9-[(2-fluorophenyl)methyl]-2-(4'-chlorophenyl)-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one.
           9-[(3-fluorophenyl)methyl]-2-(4'-chlorophenyl)-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one,
           9-[(2-chlorophenyl)methyl]-2-(4'-chlorophenyl)-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one
           9-[i3-chlorophenyl)methyl]-2-(4'-chlorophenyl)-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one,
 10
           9-[(2-bromophenyl)methyl]-2-(4'-chlorophenyl)-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one
          9-[i3-bromophenyl)methyl]-2- (4'-chlorophenyl)-5-carbornethoxy-1 2-dihydrocarbazol-4(3H)-one
          9-[(2-methylphenyl)methyl]-2-(4'-chlorophenyl)-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one.
          9-[(3-methylphenyl)methyl]-2-(4'-chlorophenyl)-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one
          9-[(2-cyanophenyl)methyl]-2-(4'-chlorophenyl)-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one.
 15
          9-[(3-cyanophenyl)methyl]-2-(4'-chlorophenyl)-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one:
          9-[(2-trifluoromethylphenyl)methyl]-2-(4'-chlorophenyl)-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one
          9-[(3-trifluoromethylphenyl)methyl]-2-(4'-chlorophenyl)-5-carbornethoxy-1 2-dihydrocarbazol-4(3H)-one
          9-[i2-benzylphenyl)methyl]-2-(4'-chlorophenyl)-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one
          9-[(3-benzylphenyl)methyl]-2-(4'-chlorophenyl)-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one,
 20
          9-[i2-phenylphenyl)methyl]-2-(4'-chlorophenyl)-5-carbomethoxy-1 2-dihydrocarbazol-4(3H)-one
          9-[i3-phenylphenyl)methyl]-2-(4'-chlorophenyl)-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one
          9-[(2-naphthyl)methyl]-2-(4'-chlorophenyl)-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one
          9-[(1-naphthyl)methyl]-2-(4'-chlorophenyl)-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one
          9-[(phenyl)methyl]-4-hydroxy-5-carbomethyoxy carbazole
25
          9-[(2-phenoxyphenyl)methyl]-4-hydroxy-5-carbomethyoxy carbazole.
          9-[13-phenoxyphenyl)methyl]-4-hydroxy-5-carbomethyoxy carbazole
          9-[(2-fluorophenyi)methyi]-4-hydroxy-5-carbomethyoxy carbazole.
          9-[13-fluorophenyl]methyl]-4-hydroxy-5-carbomethyoxy carbazole:
          9-[(2-chlorophenyl)methyl]-4-hydroxy-5-carbomethyoxy carbazole
30
          9-[i3-chlorophenyi)methyl]-4-hydroxy-5-carbomethyoxy carbazole.
          9-[(2-bromophenyl)methyl]-4-hydroxy-5-carbomethyoxy carbazole.
          9-[(3-bromophenyl)methyl]-4-hydroxy-5-carbomethyoxy carbazole.
          9-[(2-methylphenyl)methyl]-4-hydroxy-5-carbomethyoxy carbazole:
          9-[(3-methylphenyl)methyl]-4-hydroxy-5-carbomethyoxy carbazole.
35
          9-[(2-cyanophenyl)methyl]-4-hydroxy-5-carbomethyoxy carbazole:
          9-[(3-cyanophenyl)methyl]-4-hydroxy-5-carbomethyoxy carbazole.
          9-[(2-trifluoromethylphenyl)methyl]-4-hydroxy-5-carbomethyoxy carbazole
          9-[13-trifluoromethylphenyl)methyl]-4-hydroxy-5-carbomethyoxy carbazole
          9-[i2-benzylphenyl)methyl]-4-hydroxy-5-carbomethyoxy carbazole
40
          9-[(3-benzylphenyl)methyl]-4-hydroxy-5-carbomethyoxy carbazole.
          9-[(2-phenylphenyl)methyl]-4-hydroxy-5-carbomethyoxy carbazole:
          9-[(3-phenylphenyl)methyl]-4-hydroxy-5-carbomethyoxy carbazole;
          9-(12-naphthyl)methyl]-4-hydroxy-5-carbomethyoxy carbazole
          9-[11-naphthyl]methyl]-4-hydroxy-5-carbomethyoxy carbazole.
45
          9-[(phenyl)methyl]-2-methyl-4-hydroxy-5-carbornethyoxy carbazole.
          9-[i2-phenoxyphenyl]methyl]-2-methyl-4-hydroxy-5-carbomethyoxy carbazole
          9-[13-phenoxyphenyl)methyl]-2-methyl-4-hydroxy-5-carbomethyoxy carbazole.
          9-[(2-fluorophenyl)methyl]-2-methyl-4-hydroxy-5-carbomethyoxy carbazole,
          9-[(3-fluorophenyl)methyl]-2-methyl-4-hydroxy-5-carbomethyoxy carbazole,
          9-[(2-chlorophenyl)methyl]-2-methyl-4-hydroxy-5-carbomethyoxy carbazole.
50
         9-[(3-chlorophenyl)methyl]-2-methyl-4-hydroxy-5-carbornethyoxy carbazole:
         9-[12-bromophenyl]methyl]-2-methyl-4-hydroxy-5-carbomethyoxy carbazole.
         9-[i3-bromophenyi]methyi]-2-methyl-4-hydroxy-5-carbomethyoxy carbazole.
         9-[ı2-methylphenyi]methyl]-2-methyl-4-hydroxy-5-carbomethyoxy carbazole
55
         9-[(3-methylphenyl)methyl]-2-methyl-4-hydroxy-5-carbomethyoxy carbazole.
         9-[(2-cyan phenyl)methyl]-2-methyl-4-hydroxy-5-carborn thy xy carbazole.
         9-[(3-cyan phenyl)methyl]-2-methyl-4-hydr xy-5-carbomethyoxy carbaz le.
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9-[(2-trifluoromethylphenyl)methyl]-2-methyl-4-hydroxy-5-carbomethyoxy carbazole.

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9-[(3-trifluoromethylphenyl)methyl]-2-methyl-4-hydr xy-5-carbomethyoxy carbazole.
           9-[(2-benzylphenyl)methyl]-2-methyl-4-hydroxy-5-carbomethyoxy carbazole.
           9-[(3-benzylphenyl)methyl]-2-methyl-4-hydroxy-5-carbomethyoxy carbazole.
           9-[(2-phenylphenyl)methyl]-2-methyl-4-hydroxy-5-carbomethyoxy carbazole.
           9-[(3-phenylphenyl)methyl]-2-methyl-4-hydroxy-5-carbomethyoxy carbazole.
           9-[12-naphthyl]methyl]-2-methyl-4-hydroxy-5-carbomethyoxy carbazole.
           9-[11-naphthyl]methyl]-2-methyl-4-hydroxy-5-carbornethyoxy carbazole.
           9-[(phenyl)methyl]-2-ethyl-4-hydroxy-5-carbomethyoxy carbazole.
           9-[(2-phenoxyphenyl)methyl]-2-ethyl-4-hydroxy-5-carbornethyoxy carbazole
 10
           9-[(3-phenoxyphenyl)methyl]-2-ethyl-4-hydroxy-5-carbomethyoxy carbazole:
           9-[(2-fluorophenyl)methyl]-2-ethyl-4-hydroxy-5-carbomethyoxy carbazole.
           9-[(3-fluorophenyl)methyl]-2-ethyl-4-hydroxy-5-carbomethyoxy carbazole.
           9-[(2-chlorophenyl)methyl]-2-ethyl-4-hydroxy-5-carbomethyoxy carbazole.
          9-[i3-chlorophenyl)methyl]-2-ethyl-4-hydroxy-5-carbomethyoxy carbazole.
 15
          9-[(2-bromophenyl)methyl]-2-ethyl-4-hydroxy-5-carbomethyoxy carbazole:
          9-[(3-bromophenyl)methyl]-2-ethyl-4-hydroxy-5-carbomethyoxy carbazole:
           9-[12-methylphenyl)methyl]-2-ethyl-4-hydroxy-5-carbomethyoxy carbazole:
          9-[(3-methylphenyl)methyl]-2-ethyl-4-hydroxy-5-carbomethyoxy carbazole.
          9-[(2-cyanophenyl)methyl]-2-ethyl-4-hydroxy-5-carbomethyoxy carbazole
20
          9-[(3-cyanophenyl)methyl]-2-ethyl-4-hydroxy-5-carbomethyoxy carbazole
          9-[(2-trifluoromethylphenyl)methyl]-2-ethyl-4-hydroxy-5-carbomethyoxy carbazole:
          9-[(3-Irifluoromethylphenyl)methyl]-2-ethyl-4-hydroxy-5-carbomethyoxy carbazole.
          9-[(2-benzylphenyl)methyl]-2-ethyl-4-hydroxy-5-carbomethyoxy carbazole.
          9-[(3-benzylphenyi)methyl]-2-ethyl-4-hydroxy-5-carbomethyoxy carbazole.
25
          9-[(2-phenylphenyl)methyl]-2-ethyl-4-hydroxy-5-carbomethyoxy carbazole.
          9-[(3-phenylphenyl)methyl]-2-ethyl-4-hydroxy-5-carbomethyoxy carbazole
          9-[(2-naphthyl)methyl]-2-ethyl-4-hydroxy-5-carbomethyoxy carbazole.
          9-[(1-naphthyl)methyl]-2-ethyl-4-hydroxy-5-carbomethyoxy carbazole:
          9-[(phenyl)methyl]-2-isopropyl-4-hydroxy-5-carbomethyoxy carbazole.
20
          9-[(2-phenoxyphenyl)methyl]-2-isopropyl-4-hydroxy-5-carbomethyoxy carbazole.
          9-[(3-phenoxyphenyl)methyl]-2-isopropyl-4-hydroxy-5-carbomethyoxy carbazole.
          9-[(2-fluorophenyl)methyl]-2-isopropyl-4-hydroxy-5-carbomethyoxy carbazole:
          9-[(3-fluorophenyi)methyi]-2-isopropyi-4-hydroxy-5-carbomethyoxy carbazole:
          9-[(2-chlorophenyl)methyl]-2-isopropyl-4-hydroxy-5-carbomethyoxy carbazole.
35
          9-[(3-chlorophenyl)methyl]-2-isopropyl-4-hydroxy-5-carbomethyoxy carbazole.
          9-[(2-bromophenyl)methyl]-2-isopropyl-4-hydroxy-5-carbomethyoxy carbazole.
          9-[(3-bromophenyl)methyl]-2-isopropyl-4-hydroxy-5-carbomethyoxy carbazole,
          9-[(2-methylphenyl)methyl]-2-isopropyl-4-hydroxy-5-carbomethyoxy carbazole.
          9-[(3-methylphenyl)methyl]-2-isopropyl-4-hydroxy-5-carbomethyoxy carbazole.
          9-[(2-cyanophenyl)methyl]-2-isopropyl-4-hydroxy-5-carbomethyoxy carbazole:
          9-[(3-cyanophenyl)methyl]-2-isopropyl-4-hydroxy-5-carbomethyoxy carbazole:
          9-[(2-trifluoromethylphenyl)methyl]-2-isopropyl-4-hydroxy-5-carbomethyoxy carbazole:
          9-[(3-trifluoromethylphenyl)methyl]-2-isopropyl-4-hydroxy-5-carbomethyoxy carbazole:
          9-[(2-benzylphenyl)methyl]-2-isopropyl-4-hydroxy-5-carbomethyoxy carbazole:
45
         9-[(3-benzylphenyl)methyl]-2-isopropyl-4-hydroxy-5-carbomethyoxy carbazole:
         9-[(2-phenylphenyl)methyl]-2-isopropyl-4-hydroxy-5-carbomethyoxy carbazole.
         9-[(3-phenylphenyl)methyl]-2-isopropyl-4-hydroxy-5-carbomethyoxy carbazole.
         9-[(2-naphthyl)methyl]-2-isopropyl-4-hydroxy-5-carbomethyoxy carbazole.
         9-[(1-naphthyl]methyl]-2-isopropyl-4-hydroxy-5-carbomethyoxy carbazole.
50
         9-[(phenyl)methyl]-2-pentyl-4-hydroxy-5-carbornethyoxy carbazole.
         9-[(2-phenoxyphenyl)methyl]-2-pentyl-4-hydroxy-5-carbomethyoxy carbazole
         9-[(3-phenoxyphenyl)methyl]-2-pentyl-4-hydroxy-5-carbomethyoxy carbazole:
         9-[(2-fluorophenyl)methyl]-2-pentyl-4-hydroxy-5-carbomethyoxy carbazole.
         9-[(3-fluorophenyl)methyl]-2-pentyl-4-hydroxy-5-carbomethyoxy carbazole;
55
         9-[(2-chlorophenyl)methyl]-2-pentyl-4-hydroxy-5-carbomethyoxy carbazole:
         9-[(3-chioroph nyl)methyl]-2-pentyl-4-hydroxy-5-carbom thyoxy carbazole.
         9-[(2-bromophenyl)methyl]-2-pentyl-4-hydroxy-5-carbom thy xy carbazole.
         9-[(3-bromophenyl)methyl]-2-pentyl-4-hydroxy-5-carbomethy xy carbazole,
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9-[(2-methylphenyl)methyl]-2-pentyl-4-hydroxy-5-carbomethy xy carbazole
           9-[(3-methylphenyl)methyl]-2-pentyl-4-hydroxy-5-carbomethyoxy carbazole
           9-[(2-cyanophenyl)methyl]-2-pentyl-4-hydroxy-5-carbomethyoxy carbazole:
           9-[(3-cyanophenyl)methyl]-2-pentyl-4-hydroxy-5-carbomethyoxy carbazole.
           9-[(2-trifluoromethylphenyl)methyl]-2-pentyl-4-hydroxy-5-carbomethyoxy carbazole
           9-[(3-trifluoromethylphenyl)methyl]-2-pentyl-4-hydroxy-5-carbomethyoxy carbazolo
           9-[(2-benzylphenyl)methyl]-2-pentyl-4-hydroxy-5-carbomethyoxy carbazole
           9-[(3-benzylphenyl)methyl]-2-pentyl-4-hydroxy-5-carbomethyoxy carbazole
           9-[(2-phenylphenyl)methyl]-2-pentyl-4-hydroxy-5-carbomethyoxy carbazole:
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           9-[(3-phenylphenyl)methyl]-2-pentyl-4-hydroxy-5-carbomethyoxy carbazole
           9-[12-naphthyl]methyl]-2-pentyl-4-hydroxy-5-carbomethyoxy carbazole
           9-[11-naphthyl]methyl]-2-pentyl-4-hydroxy-5-carbomethyoxy carbazole.
           9-[(phenyl)methyl]-2-phenyl-4-hydroxy-5-carbomethyoxy carbazole
           9-[i2-phenoxyphenyl)methyl]-2-phenyl-4-hydroxy-5-carbomethyoxy carbazole
 15
           9-[(3-phenoxyphenyl)methyl]-2-phenyl-4-hydroxy-5-carbomethyoxy carbazole
          9-[(2-fluorophenyl)methyl]-2-phenyl-4-hydroxy-5-carbomethyoxy carbazole:
          9-[i3-fluorophenyl)methyl]-2-phenyl-4-hydroxy-5-carbomethyoxy carbazole.
          9-[(2-chlorophenyl)methyl]-2-phenyl-4-hydroxy-5-carbomethyoxy carbazole
          9-[(3-chlorophenyl)methyl]-2-phenyl-4-hydroxy-5-carbomethyoxy carbazole
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          9-[(2-bromophenyl)methyl]-2-phenyl-4-hydroxy-5-carbomethyoxy carbazole
          9-[(3-bromophenyl)methyl]-2-phenyl-4-hydroxy-5-carbomethyoxy carbazole.
          9-[(2-methylphenyl)methyl]-2-phenyl-4-hydroxy-5-carbomethyoxy carbazole
          9-[(3-methylphenyl)methyl]-2-phenyl-4-hydroxy-5-carbomethyoxy carbazole
          9-[(2-cyanophenyl)methyl]-2-phenyl-4-hydroxy-5-carbomethyoxy carbazole
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          9-[(3-cyanophenyl)methyl]-2-phenyl-4-hydroxy-5-carbomethyoxy carbazole.
          9-[(2-trifluoromethylphenyl)methyl]-4-hydroxy-5-carbomethyoxy carbazole
          9-[(3-trifluoromethylphenyl)methyl]-2-phenyl-4-hydroxy-5-carbomethyoxy carbazole
          9-[(2-benzylphenyl)methyl]-2-phenyl-4-hydroxy-5-carbomethyoxy carbazole
          9-[(3-benzylphenyl)methyl]-2-phenyl-4-hydroxy-5-carbomethyoxy carbazole.
          9-[i2-phenylphenyl)methyl]-2-phenyl-4-hydroxy-5-carbomethyoxy carbazole
30
          9-[(3-phenylphenyl)methyl]-2-phenyl-4-hydroxy-5-carbomethyoxy carbazole.
          9-[(2-naphthyl)methyl]-2-phenyl-4-hydroxy-5-carbomethyoxy carbazole
          9-[(1-naphthyl)methyl]-2-phenyl-4-hydroxy-5-carbornethyoxy carbazole.
          9-[(phenyl)methyl]-2-(4'-chlorophenyl)-4-hydroxy-5-carbomethyoxy carbazole.
          9-[(2-phenoxyphenyl)methyl]-2-(4'-chlorophenyl)-4-hydroxy-5-carbornethyoxy carbazole.
35
          9-[i3-phenoxyphenyl]methyl]-2-(4'-chlorophenyl)-4-hydroxy-5-carbomethyoxy carbazole.
          9-[i2-fluorophenyl]methyl]-2-(4'-chlorophenyl)-4-hydroxy-5-carbomethyoxy carbazole.
          9-[i3-fluorophenyl)methyl]-2-(4'-chlorophenyl)-4-hydroxy-5-carbomethyoxy carbazole:
          9-[(2-chlorophenyl)methyl]-2-(4'-chlorophenyl)-4-hydroxy-5-carbomethyoxy carbazole
40
          9-[(3-chlorophenyl)methyl]-2-(4'-chlorophenyl)-4-hydroxy-5-carbomethyoxy carbazole.
          9-[(2-bromophenyl)methyl]-2-(4'-chlorophenyl)-4-hydroxy-5-carbomethyoxy carbazole.
          9-[(3-bromophenyl)methyl]-2-(4'-chlorophenyl)-4-hydroxy-5-carbomethyoxy carbazole
          9-[(2-methylphenyl)methyl]-2-(4'-chlorophenyl)-4-hydroxy-5-carbomethyoxy carbazole:
          9-[13-methylphenyl)methyl]-2-(4'-chlorophenyl)-4-hydroxy-5-carbomethyoxy carbazole.
45
          9-[(2-cyanophenyl)methyl]-2-(4'-chlorophenyl)-4-hydroxy-5-carbomethyoxy carbazole
          9-[i3-cyanophenyl)methyl]-2-(4'-chlorophenyl)-4-hydroxy-5-carbomethyoxy carbazole
          9-[i2-trifluoromethylphenyl)methyl]-2-(4'-chlorophenyl)-4-hydroxy-5-carbomethyoxy carbazole.
          9-[(3-trifluoromethylphenyl)methyl]-2-(4'-chlorophenyl)-4-hydroxy-5-carbomethyoxy carbazole.
          9-[(2-benzylphenyl)methyl]-2-(4'-chlorophenyl)-4-hydroxy-5-carbomethyoxy carbazole,
50
         9-[(3-benzylphenyl)methyl]-2-(4'-chlorophenyl)-4-hydroxy-5-carbomethyoxy carbazole
         9-[(2-phenylphenyl)methyl]-2-(4'-chlorophenyl)-4-hydroxy-5-carbomethyoxy carbazole.
         9-[(3-phenylphenyl)methyl]-2-(4'-chlorophenyl)-4-hydroxy-5-carbomethyoxy carbazole:
         9-[(2-naphthyl)melhyl]-2-(4'-chlorophenyl)-4-hydroxy-5-carbomethyoxy carbazole.
         9-[(1-naphthyl]methyl]-2-(4'-chlorophenyl)-4-hydroxy-5-carbomethyoxy carbazole
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         9-[iphenyl)methyl]-4-hydroxy-5-carbamoyl carbazole
         9-[(2-phenoxyphenyl)methyl]-4-hydroxy-5-carbamoyl carbaz le,
         9-[(3-phenoxyphenyl)methyl]-4-hydroxy-5-carbamoyl carbazol .
         9-[(2-fluorophenyl)m thyl]-4-hydroxy-5-carbamoyl carbazole
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9-[i3-fluorophenyl)m thyl]-4-hydroxy-5-carbamoyl carbazole.
         9-[12-chlorophenyl)methyl]-4-hydroxy-5-carbamoyl carbazole.
         9-[(3-chlorophenyl)methyl]-4-hydroxy-5-carbamoyl carbazole.
         9-[(2-bromophenyl)methyl]-4-hydroxy-5-carbamoyl carbazole:
         9-[(3-bromophenyl)methyl]-4-hydroxy-5-carbamoyl carbazole:
         9-[(2-methylphenyl)methyl]-4-hydroxy-5-carbamoyl carbazole:
         9-[(3-methylphenyl)methyl]-4-hydroxy-5-carbamoyl carbazole.
         9-[(2-cyanophenyl)methyl]-4-hydroxy-5-carbamoyl carbazole.
         9-[(3-cyanophenyl)methyl]-4-hydroxy-5-carbamoyl carbazole.
10
         9-[(2-trifluoromethylphenyl)methyl]-4-hydroxy-5-carbamoyl carbazole:
         9-[(3-trifluoromethylphenyl)methyl]-4-hydroxy-5-carbamoyl carbazole.
         9-[(2-benzylphenyl)methyl]-4-hydroxy-5-carbamoyl carbazole
         9-[i3-benzylphenyl)methyl]-4-hydroxy-5-carbamoyl carbazole.
         9-[(2-phenylphenyl)methyl]-4-hydroxy-5-carbamoyl carbazole:
15
         9-[(3-phenylphenyl)methyl]-4-hydroxy-5-carbamoyl carbazole.
         9-[(2-naphthyl)methyl]-4-hydroxy-5-carbamoyl carbazole
         9-[(1-naphthyl)methyl]-4-hydroxy-5-carbamoyl carbazole
         9-[(phenyl)methyl]-2-methyl-4-hydroxy-5-carbamoyl carbazole.
         9-[(2-phenoxyphenyl)methyl]-2-methyl-4-hydroxy-5-carbamoyl carbazole:
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         9-[(3-phenoxyphenyl)methyl]-2-methyl-4-hydroxy-5-carbamoyl carbazole:
         9-[(2-fluorophenyl)methyl]-2-methyl-4-hydroxy-5-carbamoyl carbazole.
         9-[(3-fluorophenyl)methyl]-2-methyl-4-hydroxy-5-carbamoyl carbazole.
         9-[(2-chlorophenyl)methyl]-2-methyl-4-hydroxy-5-carbamoyl carbazole:
         9-[(3-chlorophenyl)methyl]-2-methyl-4-hydroxy-5-carbamoyl carbazole.
25
         9-[(2-bromophenyl)methyl]-2-methyl-4-hydroxy-5-carbamoyl carbazole.
         9-[(3-bromophenyl)methyl]-2-methyl-4-hydroxy-5-carbamoyl carbazole:
         9-[(2-methylphenyl)methyl]-2-methyl-4-hydroxy-5-carbamoyl carbazole
         9-[(3-methylphenyl)methyl]-2-methyl-4-hydroxy-5-carbamoyl carbazole
         9-[(2-cyanophenyl)methyl]-2-methyl-4-hydroxy-5-carbamoyl carbazole,
30
         9-[(3-cyanophenyl)methyl]-2-methyl-4-hydroxy-5-carbamoyl carbazole.
         9-[(2-trifluoromethylphenyl)methyl]-2-methyl-4-hydroxy-5-carbamoyl carbazole,
         9-[(3-trifluoromethylphenyl)methyl]-2-methyl-4-hydroxy-5-carbamoyl carbazole:
         9-[(2-benzylphenyl)methyl]-2-methyl-4-hydroxy-5-carbamoyl carbazole:
         9-[(3-benzylphenyl)methyl]-2-methyl-4-hydroxy-5-carbamoyl carbazole;
35
         9-[(2-phenylphenyl)methyl]-2-methyl-4-hydroxy-5-carbamoyl carbazole,
         9-[(3-phenylphenyl)methyl]-2-methyl-4-hydroxy-5-carbamoyl carbazole:
         9-[(2-naphthyl)methyl]-2-methyl-4-hydroxy-5-carbamoyl carbazole
         9-[(1-naphthyl)methyl]-2-methyl-4-hydroxy-5-carbamoyl carbazole
         9-[(phenyl)methyl]-2-ethyl-4-hydroxy-5-carbamoyi carbazole,
40
         9-[(2-phenoxyphenyl)methyl]-2-ethyl-4-hydroxy-5-carbamoyl carbazole.
         9-[(3-phenoxyphenyl)methyl]-2-ethyl-4-hydroxy-5-carbamoyl carbazole.
         9-[(2-fluorophenyl)methyl]-2-ethyl-4-hydroxy-5-carbamoyl carbazole;
         9-[(3-fluorophenyl)methyl]-2-ethyl-4-hydroxy-5-carbamoyl carbazole:
         9-[(2-chlorophenyl)methyl]-2-ethyl-4-hydroxy-5-carbamoyl carbazole:
         9-[(3-chlorophenyi)methyl]-2-ethyl-4-hydroxy-5-carbamoyl carbazole:
         9-[i2-bromophenyi]methyl]-2-ethyl-4-hydroxy-5-carbamoyl carbazole:
         9-[(3-bromophenyl)methyl]-2-ethyl-4-hydroxy-5-carbamoyl carbazole:
         9-[(2-methylphenyl)methyl]-2-ethyl-4-hydroxy-5-carbamoyl carbazole;
         9-[(3-methylphenyl)methyl]-2-ethyl-4-hydroxy-5-carbamoyl carbazole:
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          9-[(2-cyanophenyi)methyi]-2-ethyl-4-hydroxy-5-carbamoyi carbazole:
         9-[(3-cyanophenyi)methyi]-2-ethyl-4-hydroxy-5-carbamoyi carbazole.
         9-[(2-trifluoromethylphenyl)methyl]-2-ethyl-4-hydroxy-5-carbamoyl carbazole.
         9-[(3-trifluoromethylphenyl)methyl]-2-ethyl-4-hydroxy-5-carbamoyl carbazole:
         9-[(2-benzylphenyl)methyl]-2-ethyl-4-hydroxy-5-carbamoyl carbazole:
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         9-[(3-benzylphenyl)methyl]-2-ethyl-4-hydroxy-5-carbamoyl carbazole:
         9-[(2-phenylphenyl)methyl]-2-ethyl-4-hydroxy-5-carbamoyl carbaz 1 :
         9-[(3-phenylphenyl)methyl]-2-ethyl-4-hydroxy-5-carbamoyl carbazole:
          9-[(2-naphthyl)methyl]-2-ethyl-4-hydroxy-5-carbamoyl carbazole:
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9-[(1-naphthyl)methyl]-2-ethyl-4-hydroxy-5-carbamovl carbazole.
           9-[(phenyl)methyl]-2-isopropyl-4-hydroxy-5-carbamoyl carbazole.
           9-[i2-phenoxyphenyl)methyl]-2-isopropylcarbamoyl carbazole:
           9-[(3-phenoxyphenyl)methyl]-2-isopropyl-4-hydroxy-5carbamoyl carbazole:
           9-[(2-flucrophenyl)methyl]-2-isopropyl-4-hydroxy-5-carbamoyl carbazole.
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           9-[(3-flucrophenyl)methyl]-2-isopropyl-4-hydroxy-5-carbamoyl carbazole
           9-[(2-chlorophenyl)methyl]-2-isopropyl-4-hydroxy-5-carbamoyl carbazole.
           9-[(3-chlorophenyl)methyl]-2-isopropyl-4-hydroxy-5-carbamoyl carbazole
           9-[(2-bromophenyl)methyl]-2-isopropyl-4-hydroxy-5-carbamoyl carbazole
           9-[(3-bromophenyl)methyl]-2-isopropyl-4-hydroxy-5-carbamoyl carbazole
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           9-[(2-methylphenyl)methyl]-2-isopropyl-4-hydroxy-5-carbamoyl carbazole.
           9-[(3-methylphenyl)methyl]-2-isopropyl-4-hydroxy-5-carbamoyl carbazole
           9-[(2-cyanophenyl)methyl]-2-isopropyl-4-hydroxy-5-carbamoyl carbazole.
           9-[(3-cyanophenylimethyl]-2-isopropyl-4-hydroxy-5-carbamoyl carbazole;
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           9-[(2-trifluoromethylphenyl)methyl]-2-isopropyl-4-hydroxy-5-carbamoyl carbazole.
           9-[(3-trifluoromethylphenyl)methyl]-2-isopropyl-4-hydroxy-5-carbamoyl carbazole
           9-[(2-benzylphenyl)methyl]-2-isopropyl-4-hydroxy-5-carbamoyl carbazole
           9-[(3-benzylphenyl)methyl]-2-isopropyl-4-hydroxy-5-carbamoyl carbazole
           9-((2-phenylphenyl)methyl]-2-isopropyl-4-hydroxy-5-carbamoyl carbazole.
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           9-[(3-phenylphenyl)methyl]-2-isopropyl-4-hydroxy-5-carbamovl carbazole
           9-[(2-naphthyl)methyl]-2-isopropyl-4-hydroxy-5-carbamoyl carbazole
           9-[(1-naphthyl)methyl]-2-isopropyl-4-hydroxy-5-carbamoyl carbazole
           9-[(phenyl)methyl]-2-pentyl-4-hydroxy-5-carbamoyl carbazole.
           9-[(2-phenoxyphenyl)methyl]-2-pentyl-4-hydroxy-5-carbamoyl carbazole
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          9-[(3-phenoxyphenyl)methyl]-2-pentyl-4-hydroxy-5-carbamoyl carbazole.
          9-[(2-fluorophenyl)methyl]-2-pentyl-4-hydroxy-5-carbamoyl carbazole
          9-[(3-fluorophenyl)methyl]-2-pentyl-4-hydroxy-5-carbamoyl carbazole:
          9-[(2-chlorophenyl)methyl]-2-pentyl-4-hydroxy-5-carbamoyl carbazole:
          9-[(3-chlorophenyl)methyl]-2-pentyl-4-hydroxy-5-carbamoyl carbazole.
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          9-[(2-bromophenyl)methyl]-2-pentyl-4-hydroxy-5-carbamoyl carbazole.
          9-[(3-bromophenyi)methyi]-2-pentyl-4-hydroxy-5-carbamovi carbazole:
          9-[(2-methylphenyl)methyl]-2-pentyl-4-hydroxy-5-carbamoyl carbazole.
          9-[(3-methylphenyl)methyl]-2-pentyl-4-hydroxy-5-carbamoyl carbazole
          9-[(2-cyanophenyl)methyl]-2-pentyl-4-hydroxy-5-carbamoyl carbazole
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          9-[(3-cyanophenyi)methyl]-2-pentyl-4-hydroxy-5-carbamovi carbazole.
          9-[(2-trifluoromethylphenyl)methyl]-2-pentyl-4-hydroxy-5-carbamoyl carbazole
          9-[(3-trifluoromethylphenyl)methyl]-2-pentyl-4-hydroxy-5-carbamoyl carbazole
          9-[(2-benzylphenyl)methyl]-2-pentyl-4-hydroxy-5-carbamoyl carbazole
          9-[(3-benzylphenyl)methyl]-2-pentyl-4-hydroxy-5-carbamoyl carbazole;
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          9-[(2-phenylphenyl)methyl]-2-pentyl-4-hydroxy-5-carbamoyl carbazole
          9-[(3-phenylphenyl)methyl]-2-pentyl-4-hydroxy-5-carbamoyl carbazole
          9-[(2-naphthyl)methyl]-2-pentyl-4-hydroxy-5-carbamoyl carbazole.
          9-[(1-naphthyl)methyl]-2-pentyl-4-hydroxy-5-carbamoyl carbazole.
          9-[(phenyl)methyl]-2-phenyl-4-hydroxy-5-carbamoyl carbazole.
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          9-[(2-phenoxyphenyl)methyl]-2-phenyl-4-hydroxy-5-carbamoyl carbazole
          9-[(3-phenoxyphenyl)methyl]-2-phenyl-4-hydroxy-5-carbamoyl carbazole
          9-[i2-fluorophenyl)methyl]-2-phenyl-4-hydroxy-5-carbamoyl carbazole.
          9-[(3-fluorophenyl)methyl]-2-phenyl-4-hydroxy-5-carbamoyl carbazole
          9-[(2-chlorophenyl)methyl]-2-phenyl-4-hydroxy-5-carbamoyl carbazole:
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          9-[(3-chlorophenyl)methyl]-2-phenyl-4-hydroxy-5-carbamoyl carbazole.
          9-[(2-bromophenyl)methyl]-2-phenyl-4-hydroxy-5-carbamoyl carbazole:
         9-[(3-bromophenyl)methyl]-2-phenyl-4-hydroxy-5-carbamoyl carbazole.
         9-[(2-methylphenyl)methyl]-2-phenyl-4-hydroxy-5-carbamoyl carbazole.
         9-[(3-methylphenyl)methyl]-2-phenyl-4-hydroxy-5-carbamoyl carbazole:
         9-[(2-cyanophenyl)methyl]-2-phenyl-4-hydroxy-5-carbamoyl carbazole.
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         9-[(3-cyanophenyl)methyl]-2-phenyl-4-hydroxy-5-carbamoyl carbaz le.
         9-[(2-trifluoromethylphenyl)methyl]-2-phenyl-4-hydroxy-5-carbamoyl carbazole.
         9-[(3-trifluoromethylphenyl)methyl]-2-phenyl-4-hydroxy-5-carbamoyl carbazole.
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9-[(2-benzylphenyl)methyl]-2-ph nyl-4-hydroxy-5-carbamoyl carbazole.
          9-[13-benzylphenyl]methyl]-2-phenyl-4-hydroxy-5-carbamoyl carbazole:
          9-[i2-phenylphenyl)methyl]-2-phenyl-4-hydroxy-5-carbamoyl carbazole.
          9-[(3-phenylphenyl)methyl]-2-phenyl-4-hydroxy-5-carbamoyl carbazole.
          9-[(2-naphthyl)methyl]-2-phenyl-4-hydroxy-5-carbamoyl carbazole
          9-[(1-naphthyl)methyl]-2-phenyl-4-hydroxy-5-carbamoyl carbazole.
          9-[(phenyl)methyl]-2-(4'-chlorophenyl)-4-hydroxy-5-carbamoyl carbazole,
          9-[(2-phenoxyphenyl)methyl]-2-(4'-chlorophenyl)-4-hydroxy-5-carbamoyl carbazole.
          9-[(3-phenoxyphenyl)methyl]-2-(4'-chlorophenyl)-4-hydroxy-5-carbamoyl carbazole.
10
          9-((2-fluorophenyl)methyl]-2-(4'-chlorophenyl)-4-hydroxy-5-carbamoyl carbazole.
          9-[(3-fluorophenyl)methyl]-2-(4'-chlorophenyl)-4-hydroxy-5-carbamoyl carbazole.
          9-[(2-chlorophenyl)methyl]-2-(4'-chlorophenyl)-4-hydroxy-5-carbamoyl carbazole:
          9-[(3-chlorophenyl)methyl]-2-(4'-chlorophenyl)-4-hydroxy-5-carbamoyl carbazole.
          9-[(2-bromophenyl)methyl]-2-(4'-chlorophenyl)-4-hydroxy-5-carbamoyl carbazole.
15
          9-[(3-bromophenyl)methyl]-2-(4'-chlorophenyl)-4-hydroxy-5-carbamoyl carbazole:
          9-[(2-methylphenyl)methyl]-2-(4'-chlorophenyl)-4-hydroxy-5-carbamoyl carbazole:
          9-[(3-methylphenyl)methyl]-2-(4'-chlorophenyl)-4-hydroxy-5-carbamoyl carbazole:
          9\hbox{-}[(2\hbox{-cyanophenyl})\hbox{-methyl}]\hbox{-}2\hbox{-}(4\hbox{'-chlorophenyl})\hbox{-}4\hbox{-hydroxy-}5\hbox{-carbamoyl carbazole}.
          9-[(3-cyanophenyl)methyl]-2-(4'-chlorophenyl)-4-hydroxy-5-carbamoyl carbazole.
20
          9-[(2-trifluoromethylphenyl)methyl]-2-(4'-chlorophenyl)-4-hydroxy-5-carbamoyl carbazole:
          9-[(3-trifluoromethylphenyl)methyl]-2-(4'-chlorophenyl)-4-hydroxy-5-carbamoyl carbazole:
          9-[i2-benzylphenyl)methyl]-2-(4'-chlorophenyl)-4-hydroxy-5-carbamoyl carbazole.
          9-[i3-benzylphenyl)methyl]-2-(4'-chlorophenyl)-4-hydroxy-5-carbamoyl carbazole.
          9-[(2-phenylphenyl)methyl]-2-(4'-chlorophenyl)-4-hydroxy-5-carbamoyl carbazole:
25
          9-[(3-phenylphenyl)methyl]-2-(4'-chlorophenyl)-4-hydroxy-5-carbamoyl carbazole.
          9-[(2-naphthyl)methyl]-2-(4'-chlorophenyl)-4-hydroxy-5-carbamoyl carbazole
          9-[(1-naphthyl)melhyl]-2-(4'-chlorophenyl)-4-hydroxy-5-carbamoyl carbazole:
          ethyl 5-methoxy-8-methyl-1,2,3,4-tetrahydrocarbazole-4-carboxylate.
          ethyl 9-benzyl-5-methoxy-8-methyl-1.2,3.4-tetrahydrocarbazole-4-carboxylate.
30
          9-benzyl-5-methoxy-8-methyl-1,2,3.4-tetrahydrocarbazole-4-carboxamide
          5-carbamoyl-4-methoxy-1-methylcarbazole
          9-benzyl-5-carbamoyl-4-methoxy-1-methylcarbazole:
          Ethyl 9-benzyl-5-methoxy-8-fluoro-1,2,3,4-tetrahydrocarbazole-4-carboxylate:
          9-Benzyl-5-methoxy-8-fluoro-1,2,3,4-telrahydrocarbazole-4-carboxamide:
35
          9-benzyl-5-carbamoyl-4-methoxy-1-fluorocarbazole,
          Ethyl 9-benzyl-5-methoxy-8-chloro-1,2,3.4-tetrahydrocarbazole-4-carboxylate:
          9-Benzyl-5-methoxy-8-chloro-1 2,3.4-tetrahydrocarbazole-4-carboxamide.
          9-benzyl-5-carbamoyl-4-methoxy-1-chlorocarbazole.
          5-carbamoyl-4-hydroxy-1-chlorocarbazole:
          [5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester.
40
          [9-[(2-fluorophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid., methyl ester.
          9-[(phenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid., gmethyl ester.
          9-[(2-phenoxyphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid:, methyl ester.
          9-[(3-phenoxyphenyl)methyl]-5-carbamoyicarbazol-4-yl]oxyacetic acid., methyl ester.
45
          9-[(2-fluorophenyl)methyl]-5-carbamoylcarbazol-4-yl)oxyacetic acid., methyl ester.
          9-[(3-fluorophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid,. methyl ester,
          9-[(2-chlorophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid:. methyl ester,
          9-[(3-chlorophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid:. methyl ester.
          9-[(2-bromophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid; methyl ester.
50
          9-[(3-bromophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid:, methyl ester.
          9-[(2-methylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid:, methyl ester
          9-[(3-methylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid:, methyl ester:
          9-[(2-cyanophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid.. methyl ester;
          9-[(3-cyanophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid.. methyl ester;
55
          9-[(2-trifluoromethylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid;, methyl ester:
          9-[(3-triflu romethylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyac tic acid., methyl est r:
          9-[(2-benzylphenyl)methyl]-5-carbamoylcarbaz I-4-yl]oxyacetic acid:, m thyl ester:
          9-{(3-benzylphenyl)methyl]-5-carbamoylcarbaz I-4-yl} xyacetic acid., m thyl ster:
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9-[(2-phenylphenyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid . methyl ester:
             9-[(3-phenylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid. methyl ester.
             9-[(2-naphthyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid:. methyl ester:
            9-[(1-naphthyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid., methyl ester.
            9-[(phenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;, methyl ester;
            9-[(2-phenoxyphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid., methyl ester.
            9-[i3-phenoxyphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid , methyl ester.
            9-[(2-fluorophenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid , methyl ester
            9-[(3-fluorophenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:, methyl ester
            9-[(2-chlorophenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid methyl ester
  10
            9-[(3-chlorophenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:, methyl ester:
            9-[12-bromophenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid: methyl ester.
            9-[(3-bromophenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:, methyl ester
            9-[(2-methylphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid,, methyl ester:
  15
            9-[(3-methylphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:, methyl ester.
            9-[(2-cyanophenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:. methyl ester;
            9-[(3-cyanophenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;, methyl ester;
            9-[(2-trifluoromethylphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl}oxyacetic acid . methyl ester.
            9-[(3-trifluoromethylphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:, methyl ester.
 20
            9-[(2-benzylphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:. methyl ester:
            9-{(3-benzylphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl)oxyacetic acid:, methyl ester.
            9-[(2-phenylphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid: methyl ester:
            9-[(3-phenylphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:. methyl ester:
            9-[12-naphthyl]methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.. methyl ester.
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           9-[(1-naphthyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.. methyl ester
           9-[iphenyi]methyi]-2-ethyi-5-carbamoyicarbazol-4-yi]oxyacetic acid:, methyi ester.
           9-[(2-phenoxyphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:. methyl ester:
           9-[i3-phenoxyphenyi]methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:. methyl ester.
           9-[(2-fluorophenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.. methyl ester.
 30
           9-[(3-fluorophenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid,, methyl ester.
           9-[(2-chlorophenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid., methyl ester.
           9-[(3-chlorophenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:, methyl ester.
           9-[(2-bromophenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl|oxyacetic acid, methyl ester.
           9-[i3-bromophenyl]methyl]-2-ethyl-5-carbamoylcarbazol-4-yl|oxyacetic acid., methyl ester:
 35
           9-[(2-methylphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-ylloxyacetic acid.. methyl ester;
           9-[(3-methylphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yljoxyacetic acid., methyl ester:
           9-[i2-cyanophenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl[oxyacetic acid:. methyl ester:
           9-[i3-cyanophenyl]methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid methyl ester.
          9-[(2-trifluoromethylphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:, methyl ester:
10
          9-[(3-trifluoromethylphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:. methyl ester:
           9-[(2-benzylphenyi)methyi]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid . methyl ester.
           9-[(3-benzylphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid., methyl ester.
           9-[(2-phenylphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;, methyl ester:
           9-[(3-phenylphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;, methyl ester.
45
          9-[(2-naphthyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:. methyl ester
          9-[(1-naphthyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl)oxyacetic acid.. methyl ester
          9-[iphenyl]methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;, methyl ester:
          9-[12-phenoxyphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid: methyl ester;
          9-[(3-phenoxyphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;. methyl ester:
50
          9-[(2-fluorophenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl|oxyacetic acid:, methyl ester:
          9-[(3-fluorophenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid,, methyl ester.
          9-[i2-chlorophenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid . methyl ester.
          9-[(3-chlorophenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid., methyl ester:
          9-[12-bromophenyl]methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:, methyl ester.
55
          9-[(3-bromophenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;, methyl ester:
         9-[(2-methylphenyl)methyl]-2-isopropyl-5-carbamoylcarbaz I-4-yl]oxyacetic acid., methyl ster:
          9-[(3-methylphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.. methyl ester.
         9-[(2-cyanophenyl)methyl]-2-isopr pyl-5-carbamoylcarbazol-4-yljoxyacetic acid,, methyl est r:
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9-[i3-cyanophenyi]methyl]-2-isopropyi-5-carbamoylcarbazol-4-yl[oxyac_tic acid , methyl ester.
           9-[(2-trifluoromethylphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl}oxyacetic acid.. methyl ester.
           9-[t3-trfluoromethylphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid., methyl ester
           9-[(2-benzylphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid., methyl ester:
 5
           9-[(3-benzylphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-ylloxyacetic acid., methyl ester:
           9-[(2-phenylphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;. methyl ester
           9-[13-phenylphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;, methyl ester
           9-[(2-naphthyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yljoxyacetic acid., methyl ester.
           9-[(1-naphthyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;, methyl ester:
 10
           9-[(phenyl)methyl]-2-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid., methyl ester
           9-[(2-phenoxyphenyl)methyl]-2-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:, methyl ester:
           9-[(3-phenoxyphenyl) methyl]-2-pentyl-5-carbamoylcarbazol-4-ylloxyacetic acid.. methyl ester
           9-f(2-fluorophenyl)methyl]-2-pentyl-5-carbamoylcarbazol-4-yl}oxyacetic acid;. methyl ester:
           9-[(3-fluorophenyl)methyl]-2-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid,. methyl ester:
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          9-[(2-chlorophenyl)methyl]-2-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid., methyl ester.
          9-[(3-chlorophenyl)methyl]-2-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid., methyl ester:
          9-[12-bromophenyl]methyl]-2-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.. methyl ester
          9-[(3-bromophenyl)methyl]-2-pentyl-5-carbamoylcarbazol-4-yl}oxyacetic acid., methyl ester,
          9-[(2-methylphenyl)methyl]-2-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid . methyl ester.
20
          9-[(3-methylphenyl)methyl]-2-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:. methyl ester:
          9-[(2-cyanophenyl)methyl]-2-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid: methyl ester:
          9-[(3-cyanophenyl)methyl]-2-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.. methyl ester;
          9-[(2-trifluoromethylphenyl)methyl]-2-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid: methyl ester:
          9-[(3-trifluoromethylphenyl)methyl]-2-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:. methyl ester.
25
          9-[(2-benzylphenyl)methyl]-2-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:, methyl ester.
          9-[(3-benzylphenyl)methyl]-2-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;, methyl ester.
          9-[(2-phenylphenyl)methyl]-2-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:. methyl ester:
          9-[(3-phenylphenyl)methyl]-2-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:, methyl ester:
          9-[(2-naphthyl)methyl]-2-pentyl-5-carbamoylcarbazol-4-yl}oxyacetic acid., methyl ester.
30
          9-[(1-naphthyl)methyl]-2-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.. methyl ester
          9-[iphenyl]methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:, methyl ester.
          9-[(2-phenoxyphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid . methyl ester.
          9-[i3-phenoxyphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid . methyl ester.
          9-[(2-fluorophenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl}oxyacetic acid;, methyl ester.
35
          9-[(3-fluorophenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid: methyl ester.
          9-[(2-chlorophenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid: methyl ester:
          9-[(3-chlorophenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:, methyl ester;
          9-[(2-bromophenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid., methyl ester:
          9-[(3-bromophenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid., methyl ester:
40
          9-[(2-methylphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid., methyl ester;
          9-[(3-methylphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:, methyl ester;
         9-[(2-cyanophenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid: methyl ester.
         9-[(3-cyanophenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:, methyl ester.
         9-[(2-Influoromethylphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid , methyl ester:
45
          9-[13-trifluoromethylphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yljoxyacetic acid., methyl ester:
         9-[(2-benzylphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:, methyl ester:
         9-[(3-benzylphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:, methyl ester:
         9-[(2-phenylphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.. methyl ester,
         9-f(3-phenylphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid., methyl ester.
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         9-[(2-naphthyl]methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;, methyl ester.
         9-[(1-naphthyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl)oxyacetic acid., methyl ester.
         9-[(phenyl)methyl]-2-(4'-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid;, methyl ester.
         9-[(2-phenoxyphenyl)methyl]-2-(4'-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid;, methyl ester,
         9-[(3-phenoxyphenyl)methyl]-2-(4'-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid;, methyl ester.
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         9-[(2-fluorophenyl)methyl]-2-(4'-chlorophenyl)-5-carbamoylcarbazol-4-yl|oxyacetic acid., methyl ester;
         9-[(3-fluorophenyl)methyl]-2-(4'-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid:, m_thyl ester.
         9-{(2-chlorophenyl)methyl]-2-(4'-chloroph nyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid;, methyl ester:
         9-[(3-chlorophenyl)methyl]-2-(4'-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid;, methyl ester.
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9-[(2-bromophenyl)methyl]-2-(4'-chlor phenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.. m thyl ester,
            9-[(3-bromophenyl)methyl]-2-(4'-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid. methyl ester.
            9-[(2-methylphenyl)methyl]-2-(4'-chlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid:. methyl ester
            9-[(3-methylphenyl)methyl]-2-(4'-chlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid:. methyl ester.
            9-{12-cyanophenyl)methyl]-2-(4'-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid, methyl ester.
            9-[(3-cyanophenyl)methyl]-2-(4'-chlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid . methyl ester
            9-[12-trifluoromethylphenyl)methyl]-2-(4'-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.. methyl ester.
            9-[(3-trifluoromethylphenyl)methyl]-2-(4'-chlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.. methyl ester.
            9-[(2-benzylphenyl)methyl]-2-(4'-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid., methyl ester:
  10
            9-[(3-benzylphenyl)methyl]-2-(4'-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid., methyl ester .
            9-[(2-phenylphenyl)methyl]-2-(4'-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid , methyl ester,
            9-[(3-phenylphenyl)methyl]-2-(4'-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.. methyl ester.
           9-[(2-naphthyl)methyl]-2-(4'-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid . methyl ester
           9-[(1-naphthyl)methyl]-2-(4'-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid., methyl ester
 15
           9-[(phenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid.. t-butyl ester.
           9-[(2-phenoxyphenyl)methyl]-5-carbamoylcarbazol-4-yl|oxyacetic acid:. t-butyl ester.
           9-[13-phenoxyphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid., t-butyl ester.
           9-[(2-fluorophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid.. t-butyl ester
           9-[(3-fluorophenyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid . t-butyl ester.
 20
           9-[(2-chlorophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid.. t-butyl ester
           9-[(3-chlorophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid:. t-butyl ester
           9-[(2-bromophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid , t-butyl ester.
           9-[(3-bromophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid , t-butyl ester.
           9-[(2-methylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid.. t-butyl ester.
 25
           9-[(3-methylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid.. t-butyl ester
           9-[(2-cyanophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid., t-butyl ester.
           9-[(3-cyanophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid.. t-butyl ester.
           9-[(2-Influoromethylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid t-butyl ester
           9-[i3-trifluoromethylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid.. t-butyl ester
 30
           9-[12-benzylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid , t-butyl ester
           9-[i3-benzylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid., t-butyl ester
           9-[(2-phenylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid.. t-butyl ester.
           9-[(3-phenylphenyl)methyl]-5-carbamoylcarbazol-4-yl)oxyacetic acid:. t-butyl ester.
           9-[(2-naphthyl)methyl]-5-carbarnoylcarbazol-4-yl]oxyacetic acid: t-butyl ester.
35
           9-[(1-naphthyl)methyl]-5-carbamoylcarbazol-4-yl)oxyacetic acid: t-butyl ester.
           9-(iphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid., t-butyl ester.
           9-[(2-phenoxyphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid , t-butyl ester.
           9-[(3-phenoxyphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid., I-butyl ester.
           9-[(2-fluorophenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl}oxyacetic acid: . t-butyl ester.
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           9-[(3-fluorophenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl}oxyacetic acid.. t-butyl ester:
           9-[(2-chlorophenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:. t-butyl ester
           9-[(3-chlorophenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid. t-butyl ester
           9-[(2-bromophenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid., t-butyl ester,
           9-[(3-bromophenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:. t-butyl ester.
45
          9-[i2-methylphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:, t-butyl ester
          9-[(3-methylphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid., t-butyl ester
          9-[(2-cyanophenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid., t-butyl ester:
          9-[(3-cyanophenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid: t-butyl ester:
          9-[(2-trifluoromethylphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid , t-butyl ester:
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          9-[(3-trifluoromethylphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid., t-butyl ester
          9-[(2-benzylphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:, t-butyl ester:
          9-[i3-benzylphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:, t-butyl ester:
          9-[(2-phenylphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid,, t-butyl ester.
          9-[(3-phenylphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:, t-butyl ester:
55
          9-[(2-naphthyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:, t-butyl ester.
          9-{(1-naphthyi)methyi]-2-methyi-5-carbam ylcarbazol-4-yi|oxyacetic acid., t-butyi ester,
          9-[(phenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:. t-butyl ester:
          9-[(2-phen xyphenyl)methyl]-2-ethyl-5-carbamoylcarbaz I-4-yl]oxyacetic acid., t-butyl ester.
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9-[(3-phenoxyphenyl)methyl]-2- thyl-5-carbamoylcarbazol-4-yl]oxyacetic acid,, t-butyl ester.
           9-[i2-fluorophenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid. t-butyl ester,
           9-[i3-fluorophenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.. t-butyl ester.
           9-[(2-chlorophenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid., t-butyl ester
 5
           9-[(3-chlorophenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid., t-butyl ester,
           9-[(2-bromophenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.. t-butyl ester.
           9-[(3-bromophenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;, t-butyl ester:
           9-[(2-methylphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;. t-butyl ester.
           9-[(3-methylphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid, t-butyl ester.
 10
           9-[(2-cyanophenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid , t-butyl ester
           9-[(3-cyanophenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid , t-butyl ester.
           9-[12-trifluoromethylphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:. t-butyl ester:
           9-[(3-trifluoromethylphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid, t-butyl ester,
           9-[12-benzylphenyl]methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid. t-butyl ester.
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           9-[i3-benzylphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid., t-butyl ester.
          9-[i2-phenylphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid, t-butyl ester:
          9-[(3-phenylphenyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.. t-butyl ester:
          9-[i2-naphthyl)methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:. t-butyl ester.
          9-[i1-naphthyl]methyl]-2-ethyl-5-carbamoylcarbazol-4-yl]oxyacelic acid:. t-butyl ester.
          9-[iphenyl]methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:. t-butyl ester;
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          9-[(2-phenoxyphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl}oxyacetic acid., t-butyl ester.
          9-[i3-phenoxyphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl}oxyacetic acid., t-butyl ester:
          9-[i2-fluorophenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:, t-butyl ester
          9-[(3-fluorophenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:. t-butyl ester.
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          9-[(2-chlorophenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid., t-butyl ester;
          9-[i3-chlorophenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid., t-butyl ester:
          9-[(2-bromophenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid., t-butyl ester.
          9-[i3-bromophenyl]methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid , t-butyl ester.
          9-[(2-methylphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid, t-butyl ester.
          9-[(3-methylphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid; t-butyl ester;
30
          9-[(2-cyanophenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl}oxyacetic acid , t-butyl ester
          9-[(3-cyanophenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid., t-butyl ester
          9-[{2-trifluoromethylphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid., t-butyl ester,
          9-[13-trifluoromethylphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid. t-butyl ester.
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          9-{(2-benzylphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;, t-butyl ester;
          9-[(3-benzylphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl}oxyacetic acid., t-butyl ester-
          9-[(2-phenylphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid., t-butyl ester.
          9-[(3-phenylphenyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid: t-butyl ester.
          9-[(2-naphthyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid., t-butyl ester.
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          9-[(1-naphthyl)methyl]-2-isopropyl-5-carbamoylcarbazol-4-yl]oxyacetic acid . t-butyl ester.
          9-[(phenyl)methyl]-2-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid., t-butyl ester.
          9-[(2-phenoxyphenyl)methyl]-2-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid., t-butyl ester:
          9-[(3-phenoxyphenyl)methyl]-2-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;, t-butyl ester.
          9-{(2-fluorophenyl)methyl]-2-pentyl-5-carbamoylcarbazol-4-yl}oxyacetic acid:. t-butyl ester.
45
          9-[(3-fluorophenyl)methyl]-2-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.. t-butyl ester.
          9-[(2-chlorophenyl)methyl]-2-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid., t-butyl ester.
          9-[(3-chlorophenyl)methyl]-2-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:, t-butyl ester.
          9-[(2-bromophenyl)methyl]-2-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;. t-butyl ester,
          9-[(3-bromophenyl)methyl]-2-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;. t-butyl ester:
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          9-[(2-methylphenyl)methyl]-2-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid., t-butyl ester.
          9-[(3-methylphenyl)methyl]-2-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;, t-butyl ester,
          9-[(2-cyanophenyl)methyl]-2-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid: t-butyl ester:
          9-[(3-cyanophenyl)methyl]-2-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:. t-butyl ester.
          9-[(2-trifluoromethylphenyl)methyl]-2-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.. t-butyl ester:
55
          9-[(3-trifluoromethylphenyl)methyl]-2-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid., t-butyl ester,
          9-[(2-benzylphenyl)methyl]-2-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid., t-butyl st r;
          9-[(3-benzylphenyl)methyl]-2-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid., t-butyl ester:
          9-[(2-phenylphenyl)methyl]-2-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:, t-butyl ster:
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9-[(3-phenylphenyl)methyl]-2-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid . t-butyl est r.
           9-[i2-naphthyl)methyl]-2-pentyl-5-carbamoylcarbazol-4-yljoxyacetic acid t-butyl ester:
           9-[(1-naphthyl)methyl]-2-pentyl-5-carbamoylcarbazol-4-yl]oxyacetic acid. t-butyl ester
           9-(iphenyl)methyl)-2-phenyl-5-carbamoylcarbazol-4-yl)oxyacetic acid., t-butyl ester.
 5
           9-[12-phenoxyphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl}oxyacetic acid. t-butyl ester
           9-[i3-phenoxyphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl|oxyacetic acid t-butyl ester
           9-[12-fluorophenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid., t-butyl ester.
           9-[(3-fluorophenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid . t-butyl ester
           9-[(2-chlorophenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl)oxyacetic acid. t-butyl ester.
 10
           9-[(3-chlorophenyl)methyl]-2-phenyl-5-carbamoyicarbazol-4-yl]oxyacetic acid:, t-butyl ester
           9-[(2-bromophenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid . t-butyl ester
           9-[i3-bromophenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid t-butyl ester.
           9-[(2-methylphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid.. t-butyl ester
           9-[(3-methylphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl}oxyacetic acid t-butyl ester.
 15
           9-[(2-cyanophenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl)oxyacetic acid.. t-butyl ester
           9-[(3-cyanophenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl)oxyacetic acid., t-butyl ester
           9-{(2-trifluoromethylphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid;, t-butyl ester;
           9-[(3-trifluoromethylphenyl)methyl]-2-phenyl-5-carbarnoylcarbazol-4-yljoxyacetic acid; 1-butyl ester
           9-[(2-benzylphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid . t-butyl ester;
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           9-{(3-benzylphenyl)methyl}-2-phenyl-5-carbamoylcarbazol-4-yl}oxyacetic acid . t-butyl ester.
           9-[(2-phenylphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid_t-butyl ester.
           9-[(3-phenylphenyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid. t-butyl ester:
           9-[(2-naphthyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl]oxyacetic acid:. t-butyl ester
           9-[(1-naphthyl)methyl]-2-phenyl-5-carbamoylcarbazol-4-yl}oxyacetic acid.. t-butyl ester.
25
           9-[(phenyl)methyl]-2-(4'-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid. t-butyl ester.
           9-[12-phenoxyphenyl)methyl]-2-(4'-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid. t-butyl ester.
           9-((3-phenoxyphenyi)methyi]-2-(4'-chlorophenyi)-5-carbamoyicarbazol-4-yi)oxyacetic acid., t-butyl ester
          9-[(2-fluorophenyl)methyl]-2-(4'-chlorophenyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid t-butyl ester
          9-[t3-fluorophenyl)methyl]-2-(4'-chlorophenyl)-5-carbamoylcarbazol-4-yl)oxyacetic acid., t-butyl ester
30
          9-[(2-chlorophenyl)methyl]-2-(4'-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid., t-butyl ester.
          9-[(3-chlorophenyl)methyl]-2-(4'-chlorophenyl)-5-carbamoyicarbazol-4-yl]oxyacetic acid.. t-butyl ester.
          9-[(2-bromophenyl)methyl]-2-(4'-chlorophenyl)-5-carbamoylcarbazol-4-yl|oxyacetic acid., t-butyl ester.
          9-[i3-bromophenyl]methyl]-2-(4'-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid t-butyl ester.
          9-[12-methylphenyl)methyl]-2-(4'-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.. t-butyl ester.
35
          9-[(3-methylphenyl)methyl]-2-(4'-chlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid.. t-butyl ester:
          9-[(2-cyanophenyl)methyl]-2-(4'-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid., t-butyl ester
          9-[i3-cyanophenyl)methyl]-2-(4'-chlorophenyl)-5-carbamoylcarbazol-4-ylloxyacetic acid. t-butyl ester
          9-[(2-trifluoromethylphenyl)methyl]-2-(4'-chlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid , t-butyl ester
          9-[(3-trifluoromethylphenyl)methyl]-2-(4'-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid , t-butyl ester
40
          9-f(2-benzylphenyl)methyl]-2-(4'-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid., t-butyl ester.
          9-[(3-benzylphenyl)methyl]-2-(4' -chlorophenyl) -5-carbamoylcarbazol-4-yl}oxyacetic acid:, t-butyl ester.
          9-[(2-phenylphenyl)methyl]-2-(4'-chlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid , t-butyl ester:
          9-[(3-phenyl)methyl]-2-(4'-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid t-butyl ester.
          9-[(2-naphthyl)methyl]-2-(4'-chlorophenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid., t-butyl ester.
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          9-[(1-naphthyl)methyl]-2-(4'-chlorophenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid: t-butyl ester:
          {9-[(2-(1-pyrrolidinyl)ethyl)]-5-carbamoylcarbazol-4-yl}oxyacetic acid;
          [9-[(2-(1-piperidinyl)ethyl)]-5-carbamoylcarbazol-4-yl)oxyacetic acid
          {9-[(2-(1-morpholino)ethyl)}-5-carbamoylcarbazol-4-yl}oxyacetic acid.
          [9-(1-methyl-2-pyrrolidinylmethyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
50
          {9-(1-methyl-2-piperidinylmethyl)-5-carbamoylcarbazol-4-vi}oxyacetic acid;
          (9-(1-ethyl-2-piperidinyl)-5-carbamoylcarbazol-4-ylloxyacetic acid,
          [9-(1-methyl-2-piperidinyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          [9-[1-ethyl-3-pyrrolidinyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid.
          [9-[1-methyl-3-pyrrolidinyl]-5-carbamoylcarbazol-4-viloxyacetic acid.
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          [9-|3-quinuclidine]-5-carbamoylcarbazol-4-yl]oxyacetic acid
          (9-|cinnamyi|-5-carbamoyicarbazoi-4-yi|oxyacetic acid.
          [9-[phenethyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid:
          [9-[3-phenyl-n-propyl]-5-carbamoylcarbaz I-4-yl]oxyacetic acid.
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[9-[3-(4-flu_rophenoxy)-phenylmethyl]-5-carbamoylcarbazol-4-yl]oxyac_tic_acid. r a pharmaceutically acceptable salt, racemate, solvate, tautomer, optical isomer or prodrug derivative thereof

[0051] The compounds of formula I where Z is cyclohexene are prepared according to the following reaction Schemes I(a) and (c)

Wherein:

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R¹ is -NH₂, R³(a) is H. -O(C₁-C₄)alkyl, halo, -(C₁-C₆)alkyl, phenyl, -(C₁-C₄)alkylphenyl: phenyl substituted with-(C₁-C₆)alkyl, halo, r -CF₃: -CH₂OSi(C₁-C₆)alkyl, turyl, thiophenyl, - (C₁-C₆)hydroxyalkyl, - (C₁-C₆)alkoxy(C₁-C₆) alkyl, -(C₁-C₆)alkoxy(C₁-C₆) alkenyl: or -(CH₂)_nR⁸ where R⁸ is H, -CONH₂, -NR⁹R¹0, -CN or phenyl where R⁹ and R¹0 are independently hydrogen. -CF₃, phenyl, - (C₁-C₄)alkyl, -(C₁-C₄)alkylphenyl or -phenyl(C₁-C₄ alkyl and n is

1 to 8

when R^1 is -NHNH $_2$ R^3 (a) is H. -O(C $_1$ -C $_4$)alkyl halo -(C $_1$ -C $_6$)alkyl, phenyl, -(C $_1$ -C $_4$) alkylphenyl, phenyl substituted with -(C $_1$ -C $_6$)alkyl halo or -CF $_3$, -CH $_2$ OSi(C $_1$ -C $_6$)alkyl, furyl, thiophenyl, -(C $_1$ -C $_6$) hydroxyalkyl, -(C $_1$ -C $_6$)alkoxy(C $_1$ -C $_6$) alkyl, -(C $_1$ -C $_6$)alkoxy(C $_1$ -C $_6$)alkyl, -(C $_1$ -C $_6$)alkylphenyl or -phenyl(C $_1$ -C $_4$)alkyl and n is 1 to 8. R^{2(a)} is -OCH $_3$ or -OH

[0052] An appropriately substituted nitrobenzene (1) can be reduced to the aniline (2) by treatment with a reducing agent, such as hydrogen in the presence of Pd/C, preferably at room temperature

[0053] Compound (2) is N-alkylated at temperatures of from about 0 to 20°C using an alkylating agent such as an appropriately substituted aldehyde and sodium cyanoborohydride to form (3). Alternately, an appropriately substituted benzyl halide may be used for the first alkylation step. The resulting intermediate is further N-alkylated by treatment with 2-carbethoxy-6-bromocyclohexanone, preferably at temperatures of about 80°C to yield (4) or by treatment with potassium hexamethyldisilazide and the bromoketoester

[0054] The product (4) is cyclized to the tetrahydrocarbazole (5) by refluxing with ZnCl₂ in benzene for from about 1 to 2 days, preferably at 80°C (Ref 1) Compound (5) is converted to the hydrazide (6) by treatment with hydrazine at temperatures of about 100°C, or to the amide (7) by reacting with methylchloroaluminum amide in benzene (Ref 2) Alternatively. (7) may be produced by treatment of (6) with Raney nickel active catalyst

[0055] It will be readily appreciated that when R3(a) is

$$\begin{array}{c} O \\ - (CH_2) nCO(C_1-C_4 alkyl), \end{array}$$

conversion to the amide will also be achieved in this procedure

[0056] Compounds (6) and (7) may be dealkylated. preferably at 0°C to room temperature, with a dealkylating agent, such as boron tribromide or sodium thioethoxide, to give compound (7) where R²(a) is -OH, which may then be further converted to compound (9) by realkylating with a base such as sodium hydride, and an alkylating agent, such as Br (CH₂)_mR⁵, where R⁵ is the carboxylate or phosphonic diester or nitrile as defined above. Conversion of R² to the carboxylic acid may be accomplished by treatment with an aqueous base. When R² is nitrile, conversion to the tetrazole may be achieved by reacting with tri-butyl tin azide or conversion to the carboxamide may be achieved by reacting with basic hydrogen peroxide. When R² is the phosphonic diester conversion to the acid may be achieved by reacting with a dealkylating agent such as trimethylsilyl bromide. The monoester may be accomplished by reacting the diester with an aqueous base.

[0057] When R² and R³ are both methoxy, selective demethylation can be achieved by treating with sodium ethanethiolate in dimethyllormamide at 100°C

Ref 1 Julia, M: Lenzi J Preparation d'acides tetrahydro-1 2.3,4-carbazole-1 ou -4 Bull Soc. Chim France. 1962. 2262-2263

Ref 2 Levin J I., Turos E. Weinreb, S.M. An alternative procedure for the aluminum-mediated conversion of esters to armides. Syn. Comm., 1982. 12, 989-993.

45 [0058] An alternative synthesis of intermediate (5) is shown in Scheme I(b) as follows

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Scheme I(b)

5 Ç0₂Et PGO. 10 (2) (4") 15 ÇO,Et ÇO₂Et **PGO PGO** 20 ČH₂R⁴ (5') (5) 25

where PG is a protecting group.

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R3a is as defined in Scheme 1, above.

[0059] The antline (2) is N-alkylated with 2-carbethoxy-6-bromocyclohexanone in dimethyl formamide in the presence of sodium bicarbonate for 8-24 hours at 50°C. Preferred protecting groups include methyl, carbonate, and silyl groups, such as t-butyldimethylsilyl. The reaction product (4') is cyclized to (5') using the ZnCl₂ in benzene conditions described in Scheme I(a), above N-alkylation of (5') to yield (5) is accomplished by treatment with sodium hydride and the appropriate alkyl halide in dimethylformamide at room temperature for 4-8 hours.

Scheme II

40 R³(a) is as defined in Scheme I

[0060] As discussed in Scheme I above carbazole (5) is hydrolyzed to the carboxylic acid (10) by treatment with an aqueous base, preferably at room temperature to about 100°C. The intermediate is then converted to an acid chloride utilizing, for example, oxalyl chloride and dimethylformamide, and then further reacted with a lithium salt of (S) or (R)-4-alkyl-2-oxazolidine at a temperature of about -75°C, to give (11a) and (11b) which are separable by chromatography [0061]. The diastereomers are converted to the corresponding enantiomeric benzyl esters (12) by brief treatment at temperatures of about 0°C to room temperature with lithium benzyl oxide. (Ref 3) The esters (12) are then converted to (7) preferably by treatment with methylchloroaluminum amide (Ref 2, above) or, alternately, by hydrogenation using, for example, hydrogen and palladium on carbon, as described above to make the acid and then reacting with an acyl azide, such as diphenylphosphoryl azide followed by treatment with ammonia. Using the procedure described above in Scheme I, compound (9a) or (9b) may be accomplished

Rel 3 Evans, D.A., Ennis, M.D., Mathre, D.J. Asymmetric alkylation reactions of chiral imide enolates. A practical approach to the enanticselective synthesis of *alpha*-substituted carboxylic acid derivatives. *J. Am. Chem. Soc.* 1982, 104, 1737-1738.

[0062] Compounds of formula I where Z is phenyl can be prepared as follows in Schemes III(a) - (f), below

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Scheme III (a)

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$$R^{2}$$

$$CH_{2}R^{4}$$

$$(13)$$

$$R^{2}$$

$$R^{3}$$

$$CH_{2}R^{4}$$

$$(14)$$

- [0063] A 1 2,3,4-tetrahydrocarbazole-4-carboxamide or 4-carboxhydrazide (13) is dehydrogenated by refluxing in a solvent such as carbitol in the presence of Pd/C to produce the carbazole-4-carboxamide. Alternately, treatment of (13) with DDQ in an appropriate solvent such as dioxane yields carbozole (14)
 - [0064] Depending on the substituent pattern oxidation as described above may result in de-alkylation of the nitrogen For example when R³ is substituted at the 8-position with methyl, oxidation results in dealkylation of the nitrogen which may be realkylated by treatment with sodium hydride and the appropriate alkyl halide as described in Scheme I(a) above to prepare the deired product (14)
 - [0065] The intermediates and final products may be isolated and purified by conventional techniques, for example by concentration of the solvents, followed by washing of the residue with water, then purification by conventional techniques, such as chromatography or recrystallization.
- 25 [0066] It will be readily appreciated by the skilled artisan that the starting materials are either commercially available or can be readily prepared by known techniques from commercially available starting materials. All other reactants used to prepare the compounds in the instant invention are commercially available.

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[0067] Benz ic acid derivative(16) where X is preferably chlorine, bromine or iodine and the protecting group is preferably -CH₃, are reduced to the corresponding aniline (25) with a reducing agent, such as stannous chloride in the presence of acid under the general conditions of Sakamoto et al. Chem Pharm. Bull. 35 (5) 1823-1828 (1987)

[0068] Alternatively, reduction with sodium dithionite in the presence of a base, such as sodium carbonate in a non-interferring solvent, such as water, ethanol, and/or tetrahydrofuran affords starting material (16)

[0069] Alternatively, reduction by hydrogenation over a sulfided platinum catalyst supported on carbon with hydrogen at 1 to 60 atmospheres in a noninterfering solvent, preferably ethyl acetate, to form a starting material (16)

[0070] The reactions are conducted at temperatures from about 0 to 100°C preferably at ambient temperature, and are substantially complete in about 1 to 48 hours depending on conditions

[0071] The aniline (25) and dione (15) are condensed under dehydrating conditions, for example, using the general procedure of lida, et al., (Ref. 5), with or without a noninterfering solvent, such as toluene, benzene, or methylene chloride, under dehydrating conditions at a temperature about 10 to 150°C. The water formed in the process can be removed by distillation, azetropic removal via a Dean-Stark apparatus, or the addition of a drying agent, such as molecular sieves, magnesium sulfate, calcium carbonate, sodium sulfate, and the like

[0072] The process can be performed with or without a catalytic amount of an acid, such a p-toluenesulfonic acid or methanesulfonic acid. Other examples of suitable catalysts include hydrochloric acid, phenylsulfonic acid, calcium chloride, and acetic acid.

[9073] Examples of other suitable solvents include tetrahydrofuran, ethyl acetate, methanol, ethanol, 1,1,2,2-tetra-chloroethane, chlorobenzene, bromobenzene, xylenes, and carbotetrachloride

[0074] The condensation of the instant process is preferably carried out neat, at a temperature about 100 to 150°C with the resultant water removed by distillation via a stream of mert gas, such as, nitrogen or argon

[0075] The reaction is substantially complete in about 30 minutes to 24 hours

[0076] Intermediate (26) may then be readily cyclized in the presence of a palladium catalyst, such as Pd(OAc)₂ or Pd(PPh3)4 and the like, a phosphine, preferably a trialkyl- or triarylphosphine, such as triphenylphosphine. triotolylphosphine, or tricyclohexylphosphine and the like, a base, such as, sodium bicarbonate, triethylamine, or disopropylethylamine, in a noninterfering solvent, such as, acetonitrile, triethylamine, or toluene at a temperature about 25 to 200°C to form (19)

[0077] Examples of other suitable solvents include tetrahydrofuran, benzene, dimethylsulfoxide, or dimethylformamide.

[0078] Examples of other suitable palladium catalysts include $Pd(PPh_3)Cl_2$ $Pd(OCOCF_3)_2$, $[(CH_3C_6H_4)_3P]_2PdCl_2$. $[(CH_3CH_2)_3P]_2PdCl_2$, $[(C_6H_{11})_3P]_2PdCl_2$, and $[(C_6H_5)_3P]_2PdBr_2$.

[0079] Examples of other suitable phosphines include trisopropylphosphine, triethylphosphine, tricyclopentylphosphine, 1,2-bis(diphenylphosphino)ethane, 1,3-bis(diphenylphosphino)propane, and 1,4-bis (diphenylphosphino)butane.

[0080] Examples of other suitable bases include tripropyl amine. 2,2. 6. 6-tetramethylpiperidine. 1,5-diazabicyclo [2.2 2]octane (DABCO), 1,8-diazabicyclo[5,4 0]undec-7-ene (DBU). 1,5-diazabicyclo [4,3 0] non-5-ene. (DBN) sodium carbonate, potassium carbonate, and potassium bicarbonate

[0081] The cyclization of the instant process is preferably carried out with palladium(II)acetate as catalyst in the presence of either triphenylphosphine. tri-o-tolylphosphine, 1,3-bis(diphenylphosphino)propane, or tricyclohexylphosphine in acetonitrile as solvent and triethylamine as base at a temperature about 50 to 150°C. The reaction is substantially complete in about 1 hour to 14 days.

[0082] Alternatively, a preferred process for cyclization consists of the reaction of intermediate (26) with a palladacycle catalyst such as *trans*-di(µ-acetato)-bis[o-(di-o-tolylphosphino)benzyl]dipalladium (II) in a solvent such as dimethylacetamide (DMAC) at 120-140°C in the presence of a base such as sodium acetate

[0083] Intermediate (19) may be alkylated with an alkylating agent XCH₂R₄, where X is halo in the presence of a base to form (20). Suitable bases include potassium carbonate, sodium carbonate, lithium carbonate, cesium carbonate, sodium bicarbonate, potassium bydroxide, sodium hydroxide, sodium hydroxide, sodium hydroxide, and Triton B (N-benzyltrimethylammonium hydroxide)

[0084] The reaction may or may not be carried out in the presence of a crown ether Potassium carbonate and Triton B are preferred. The amount of alkylating agent is not critical, however, the reaction is best accomplished using an excess of alkyl halide relative to the starting material.

[0085] A catalytic amount of an iodide, such as sodium iodide or lithium iodide may or may not be added to the reaction mixture. The reaction is preferably carried out in an organic solvent, such as, acetone, dimethylformamide, dimethylsulfoxide, or acetonitrile. Other suitable solvents include tetrahydrofuran, methyl ethyl ketone, and t-butyl methyl ether.

[0086] The reaction is conducted at t imperatures from about -10 to 100°C, preferably at ambient temperaturing, and is substantially complet in about 1 to 48 hours depending on conditions. Optionally, a phase transfir reagint such as tetrabutylammonium bromide or tetrabutylammonium chloride may be employed.

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[0087] Interm dial (20) May by dehydrogenated by xidation with 2,3-dichlor -5,6-dicyano-1.4-benzoquinone in a noninterfering solvent to form (21).

[0088] Suitable solvents include methylene chloride chloroform, carbon tetrachloride, diethyl ether, methyl ethyl ketone, and t-butyl methyl ether. Toluene, benzene, dioxane, and tetrahydrofuran are preferred solvents. The reaction is carried out at a temperature about 0 to 120 °C. Temperatures from 50 to 120°C are preferred. The reaction is substantially complete in about 1 to 48 hours depending on conditions.

[0089] Intermediate (21) may be aminated with ammonia in the presence of a noninterfering solvent to form a(22) Ammonia may be in the form of ammonia gas or an ammonium salt, such as ammonium hydroxide ammonium acetate, ammonium trifluoroacetate, ammonium chloride, and the like. Suitable solvents include ethanol, methanol, propanol, butanol, tetrahydrofuran, dioxane, and water. A mixture of concentrated aqueous ammonium hydroxide and tetrahydrofuran or methanol is preferred for the instant process. The reaction is carried out at a temperature about 20 to 100°C. Temperatures from 50 to 60°C are preferred. The reaction is substantially complete in about 1 to 48 hours depending on conditions.

[0090] Alkylation of (22) is achieved by treatment with an alkylating agent of the formula XCH₂R⁹ where X is halo and R⁷⁰ is -CO₂R⁷¹. -SO₃R⁷¹.-P(O) (OR⁷¹)₂. or -P(O)(OR⁷¹)H. where R⁷¹ is an acid protecting group or a prodrug function. In the presence of a base in a noninterfering solvent to form (23) Methyl bromoacetate and t-butyl bromoacetate are the preferred alkylating agents

[0091] Suitable bases include potassium carbonate, sodium carbonate, lithium carbonate, cesium carbonate, sodium bicarbonate, potassium bicarbonate, potassium hydroxide, sodium hydroxide, sodium hydride, potassium hydride, lithium hydride, and Triton B (N-benzyltrimethylammonium hydroxide). The reaction may or may not be carried out in the presence of a crown either. Cesium carbonate and Triton B are preferred.

[0092] The amount of alkylating agent is not critical, however, the reaction is best accomplished using an excess of alkyl halide relative to the starting material. The reaction is preferably carried out in an organic solvent, such as, acetone, dimethylformamide, dimethylsulfoxide, or acetonitrile. Other suitable solvents include tetrahydrofuran, methyl ethyl ketone, and t-butyl methyl ether.

[0093] The reaction is conducted at temperatures from about -10 to 100°C preferably at ambient temperature, and is substantially complete in about 1 to 48 hours depending on conditions. Optionally, a phase transfer reagent such as tetrabutylammonium bromide or tetrabutylammonium chloride may be employed.

[0094] Intermediate (23) may be optionally hydrolyzed with a base or acid to form desired product (24) and optionally salified

[0095] Hydrolysis of (23) is achieved using a base such as sodium hydroxide, potassium hydroxide lithium hydroxide aqueous potassium carbonate, aqueous sodium carbonate, aqueous lithium carbonate, aqueous potassium bicarbonate, aqueous lithium bicarbonate, preferably sodium hydroxide and a lower alcohol solvent, such as, methanol, ethanol, isopropanol, and the like Other suitable solvents include acetone, tetrahydrofuran and dioxana

[0096] Alternatively, the acid protecting group may be removed by organic and inorganic acids such as trifluoroacetic acid and hydrochloric acid with or without a noninterferring solvent. Suitable solvents include methylene chloride, tetrahydrofuran, dioxane, and acetone. The t-butyl esters are preferably removed by neat trifluoroacetic acid.

[0097] The reaction is conducted at temperatures from about -10 to 100°C preferably at ambient temperature, and is substantially complete in about 1 to 48 hours depending on conditions

[0098] The starting material (16) is prepared by esterifying compound (15) with a alkyl halide = XPG; where X is halo and PG is an acid protecting group, in the presence of a base, preferably potassium carbonate or sodium cabonate, in a noninterferring solvent, preferably dimethylformamide or dimethylsulfoxide. The preferred alkyl halide is methyl iodide. The reaction is conducted at temperatures from about 0 to 100°C preferably at ambient temperature and is substantially complete in about 1 to 48 hours depending on conditions.

[0099] Alternatively the starting material (16) may be prepared by condensation with an alcohol HOPG, where PG is an acid protecting group, in the presence of a dehydrating catalyst such as, dicyclohexylcarbodiimide (DCC) or carbonyl diimidazole

[0100] In addition, U.S. Patent No. 4,885.338 and Jpn. Kokai Tokkyo Koho 05286912, Nov 1993 Hesel teach a method for preparing 2-fluoro-5-methoxyaniline derivatives

Scheme III(c)

R is as defined in Scheme III(b), R³(a) is as defined in Scheme I(a), above, and X is halo.

[0101] Benzoic acid derivatives (16) (X= CI, Br, or I) and boronic acid derivative (27) (either commercially available or readily prepared by known techniques from commercially available starting materials) are condensed under the general procedure of Miyaura, et al., (Ref 8a) or Trecourt, et al., (Ref 9b) in the presence of a palladium catalyst, such as Pd(Ph₃P)₄, a base, such as sodium bicarbonate, in an inert solvent, such as THF, toluene or ethanol to afford compound (28).

[0102] Compound (28) is converted to the carbazole product (29) by treatment with a trialkyl or triaryl phosphite or phosphine, such as, triethylphosphite or triphenyl phosphine, according to the general procedure of Cadogan, et al (Ref 6)

[0103] Compound (29) is N-alkylated with an appropriately substituted alkyl or aryl halide XCH₂R⁴ in the presence of a base, such as sodium hydride or potassium carbonate, in a noninterfering solvent, such as toluene, dimethylformamide, or dimethylsulfoxide to afford carbazole (30)

[0104] Compound (30) is converted to the corresponding amide (22) by treatment with boron tribromide or sodium thioethoxide, followed by ammonia or an ammonium salt, such as ammonium acetate, in an inert solvent, such as water or alcohol, or with mithylchloroaluminum amide in an inert solvent, such as tilluene, at a temperature between 0 tillooc

[0105] When R3(a) is substituted at the 8-position with chl. ro, de-alkylation of (30) with boron tribromide results in

de-benzylation—I the nitrogen as described above. Alkylation may be readily accomplished in a two stop process. First, an O-alkylation by treatment with a haloalkyl acetate such as methyl bromo acetate using sodium hydride in tetrahydrofuran, followed by N-alkylation using for example a base such as sodium hydride and an appropriately substituted alkyl or aryl halide in dimethoxy formamide. Compound (22) can be converted to product carbazole product (24) as described previously in Scheme III(b) above.

[0106] Conversion to the desired prodrug may be accomplished by techniques known to the skilled artisan, such as for example, by treatment with a primary or secondary halide to make an ester prodrug.

Scheme III (d)

[0107] Alternatively, reduction of the nitro group of compound (28) with a reducing agent, such as hydrogen in the presence of palladium on carbon, in a noninterfering solvent, such as ethanol, at 1 to 60 atmospheres, at a temperature of 0 to 60°C affords the corresponding aniline (32). Compound (32) is converted to the carbazole (29) according to the general procedure described by Trecourt, et al. (Ref. 8b). The aniline is treated with sulfuric acid and sodium nitrite, followed by sodium azide to form an intermediate azide which is cyclized to carbazole (29) by heating in an inert sovent such as toluene. Compound (29) is converted to carbazole product (24) as described previously in Schemes III(b) and III(c).

40 References.

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[0108]

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8) a N Miyaura, et al., Synth Commun. 11. 513 (1981) b F Trecourt. et al., Tetrahedron 51, 117436)

6) J Cadogan et al . J Chem Soc . 4831 (1965)

Scheme III(e)

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OCH₂C CONH²

$$Z = R^{21}$$

$$CH_2R$$

$$CH_2R$$

$$CH_2R$$

$$(40)$$

$$(41)$$

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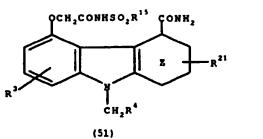
[0109] In an aprotic solvent, preferably tetrahydrofuran, reduction of (40) is achieved using a reducing agent such as aluminum trihydride. Preferably, the reaction is conducted under mert atmosphere such as nitrogen, at room temperature.

[0110] Sulfonylation may be achieved with an appropriate acylating agent in the presence of an acid scavenger such as triethyl amine.

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Scheme III (f)

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[0111] In a two-st p, one-pot process, intermediate (50), prepared as described in Schem I(a) abov , is first activated with an activating agent such as carbonyl diimidazole. The reaction is preferably run in an aprotic polar or non-

polar solvent such as tetrahydrofuran. Acytation with the activated intermediate is accomplished by reacting with H_2NSOR^{15} in the presence of a base, preferably diazabicycloundecene

Scheme III(q)

OPG OPG OH
$$R^{22}$$
 R_1 R_2 R_3 R_4 R_4 R_4 R_4 R_5 R_6 $R_$

PG is an acid protecting group. H^{22} is (C_1-C_6) alkoxy (C_1-C_6)

[0112] Starting material (20) is O-alkylated with an alkyl halide or alkenyl halide, using a base such as NaH, in an aprotic polar solvent preferably anhydrous DMF, at ambient temperature under a nitrogen atmosphere. The process of aromatization from a cyclohexenone functionality to a phenol functionality can be performed by treating the tetrahydrocabazole intermediate (60) with a base such as NaH in the presence of methyl benzenesulfinate in an anhydrous solvent, such as 1,4-dioxane or DMF, to form the ketosulfoxide derivative. Upon heating at about 100°C for 1-2 hours, the ketosulfoxide derivative (60) is converted to the phenol derivative (61). Conversion of the ester (61) to the amide (62) can be achieved by treating a solution of (61) in an aprotic polar solvent such as tetrahydrofuran with ammonia gas. Phenolic O-alkylation of (62) with, for example, methyl bromoacetate can be carried out in anhydrous DMF at ambient temperature using Cs₂CO₃ or K₂CO₃ as a base to form (63). Desired product (64) can be derived from the basic hydrolysis of ester (63) using LiOH or NaOH as a base in an H₂O/CH₃OH/THF solution at 50°C for 1-2 hours.

[0113] When R²² is -(C₁-C₆)alk xy(C₁-C₆)alkenyl, hydrogenation of the double bond can biperformed by treating (63) in THF using PtO₂ as a catalysis under a hydrog in atmosphine. Desired product can then be derived as described above in Scheme III(g) from the basic hydrolysis of stir (63) using LiOH or NaOH as a base in an H₂O/CH₃OH/THF

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solution at 50°C for 1-2 hours

[0114] The following list of abr viations are used in the Examples and Preparations

HCI = hydrochloric acid

EtOAc = ethyl acetate

DMF = dimethyl formarnide

THF = tetrahydrofuran

Et₂O = diethyl ether

H₂O = water

0 NaOH = sodium hydroxide
EIOH = ethanol
Na₂SO₄ = sodium sulfate
NaHCO₃ = sodium bicarbonate
celite = diatomaceous earth
5 CH₂Cl₂ = methylene chloride

H₂SO₄ = sulfunc acid
MeoH = methanol

 $Rh/Al_2O_3 =$ rhodium on alumina

DDQ = 2,3-dichloro-5,6-dicyano-1.4-benzo-quinone

20 TLC = thin layer chromotography

NaH = sodium hydride
NH₄OH = ammonium hydroxide
LiOH = lithium hydroxide
NH₃ = ammonia

Cs₂CO₃ = cesium carbonate NH₄oAc = ammonium acetate

[0115] The following preparations of intermediates and examples of final products futher illustrate the preparation of the compounds of this invention. The examples are illustrative only and are not intended to limit the scope of the invention in any way.

Example 1

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Preparation of 9-benzyl-5,7-dimethoxy-1,2,3,4-tetrahydrocarbazole-4-carboxylic acid hydrazide

A. Preparation of N-benzyl-3,5-dimethoxyaniline

[0116] A solution of 25gm (0 163 mol) of 3 5-dimethoxyaniline and 18 3ml (0 18 mol) of benzaldehyde in 300ml of methanol was cooled in ice-water and treated with 10 3gm (0.18 mol) of sodium cyanoborohydride in portions. The solution was stirred and cooled for 3 hours, treated with 1-2gm, of sodium borohydride for 30 minutes, diluted with water and extracted with ethyl acetate. The organic phase was washed with brine, dried over sodium sulfate, and evaporated in vacuo. The residue was chromatographed on silica gel eluting with a gradient hexane/15-70% ether to give 9-benzyl-3,5-dimethoxyaniline, 28.0gm, 71%, as an oil

Elemental Analyses for C ₁₅ H ₁₇ NO ₂				
Calculated	C 74 05,	H 7 04.	N 5 76	
Found	C 74 30,	H 7 12,	N 5.70	

B Preparation of 9-benzyl-5,7-dimethoxy-1,2,3,4-tetrahydrocarbazole-4-carboxylic acid hydrazida

[0117] A solution of 9.72gm of the compound of part A and 4.98gm of 2-carbethoxy-6-bromocyclohexanone (J Sheehan and C.E.Mumaw. J.Am.Chem.Soc., 72, 2127-2129, (1950).) in 125ml of benzene was refluxed for 72 hours, cooled. filtered, and evaporated *in vacuo*. The residue (12gm) and 10gm of zinc chloride were refluxed in 250ml of benzene for 6 hours, cooled and evaporated *in vacuo*. The residue was taken up in ethyl acetate, washed with 1N hydrochloric acid, washed with water, dried over sodium sulfate, and evaporated *in vacuo*. The residue was chromatographed on silica gel eluting with a gradient toluene/0-5% ethyl acetate to give compound (5) (F2=5-MeO R3=7-MeO R4=ph. nyl), 1.88gm which was dissolved in 100ml of ethanol containing 10ml of hydrazine hydrate and refluxed for 5 days, cooled,

the solution decanted diluted with ethyl acetate washed with brine, dried over sodium sulfat and evaporated in vacuo to give title compound 1.1gm 60%, mp 189-190°C/CH₂Cl₂-EtOH

Elemental Analyses for C ₂₂ H ₂₅ N ₃ O ₃ :				
Calculated	C 69 64.	H 6 64.	N 11 07	
Found	C 69 59.	H 6 74.	N 10 84	

Example 2

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Preparation of 9-benzyl-5 7-dimethoxy-1 2.3.4-tetrahydrocarbazole-4-carboxamide

[0118] A mixture of 980mg of the compound of example 1 2gm of Raney nickel catalyst, 1-2ml of hydrazine hydrate, and 125ml of ethanol was refluxed 1 hour, the solution decanted, diluted with ethyl acetate, washed with water, washed with brine, dried over sodium sulfate, and evaporated in vacuo. The residue was chromatographed on silica gel eluting with a gradient methylene chloride/1-3% methanol to give little compound, 820mg, 84%, mp 190-192°C/EtOH

Elemental Analyses for C ₂₂ H ₂₄ N ₂ O ₃				
Calculated	C 72.51	H 6 64:	N 7 69	
Found	C 71 88.	H 6 89.	N 7 81	

Example 3

Preparation of [9-benzyl-4-carbamoyl-7-methoxy-1,2,3 4-tetrahydrocarbazol-5-yl]oxyacetic acid sodium salt

A Preparation of 9-benzyl-5-hydroxy-7-methoxy-1.2.3 4-tetrahydrocarbazole-4-carboxamide

[0119] A solution of 1 75gm (4 8 mmol) of the compound of example 6 in 50ml of dimethylformamide was mixed with a solution of sodium thioethoxide (13.5 mmol) in 75ml, of dimethylformamide and then heated at 100°C for 21 hours. The mixture was cooled, diluted with water, acidified with hydrochloric acid, and extracted with ethyl acetate. The organic phase was washed with brine, dried over sodium sulfate, and evaporated in vacuo. The residue was chromatographed on silica gel eluting with a gradient methylene chloride/0-4% methanol to give the sub-titled product 825mg. 50% mp 225-7°C/ethanol.

Elemental Analyses for C ₂₁ H ₂₂ N ₂ O ₃				
Calculated	C 71 98,	H 6 33.	N 7 99	
Found	C 71 71.	H 6 37:	N 7 72	

B Preparation of [9-benzyl-4-carbamoyl-7-methoxy-1.2.3.4-tetrahydrocarbazol-5-yl]oxyacetic acid ethyl ester

[0120] A solution of 700mg (2.0 mmol) of the product from Part A in 70ml of dimethylformamide and 15ml of tetrahydrofuran was treated with 100mg of sodium hydride (60% in mineral oil: 2.5 mmol) for 10 minutes and then with 0.3ml (2.7 mmol) of ethyl biomoacetate for 3 hours. The mixture was diluted with ethyl acetate, washed with water, washed with brine, dried over sodium sulfate, and evaporated in vacuo. The residue was chromatographed on silicated eluting with a gradient methylene chloride/1-2% methanol to give sub-titled product, 670mg, 77%, mp 167-169°C/ ether.

Elemental Analyses for C ₂₅ H ₂₈ N ₂ O ₅				
Calculated	C 68.79.	H 6 47:	N 6.42	
Found	C 69 57.	H 6 39.	N 5 77	

C Preparation of [9-benzyl-4-carbamoyl-7-methoxy-1 2.3 4-tetrahydrocarbazol-5-yl]oxyacetic acid

[0121] A suspension of 650mg. If the product from Part B in 20ml of tetrahydrofuran and 70ml of ethanol was treated with 5ml of 2N sodium hydroxide and the resulting solution was stirred for 15.5 hours. The solution was diluted

with ethyl acetate and water and acidified with hydrochloric acid. The organic phas was washed with brine, dried over sodium sulfate, concentrated in vacuo, and filtered to give title product, 540mg, 87%, mp 251-254°C.

Elemental Analyses for C ₂₃ H ₂₄ N ₂ O ₅			
Calculated	C 67 63.	H 5 92.	N 6 86
Found	C 67 73.	H 5 74	N 6 82

D Preparation of [9-benzyl-4-carbamoyl-7-methoxy-1,2.3,4-tetrahydrocarbazol-5-yl]oxyacetic acid sodium salt.

[0122] A suspension of 120mg of the product from Part C in 20mL of ethanol was treated with 0 15mL of 2.0 N sodium hydroxide and warmed until dissolved. The resulting solution was concentrated in vacuo, diluted with ethyl acetate and again concentrated in vacuo and left to stand overnight. The precipitate was filtered and air dried to give the title product as an amorphous solid. 80mg, 63%

Elemental Analyses for C ₂₃ H ₂₃ NaN ₂ O ₅ -0 4H ₂ O			
Calculated	C 63 18.	H 5 39	N 6 40
Found	C 63 31.	H 5 48	N 6 25

Example 4

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Preparation of [9-benzyl-4-carbamoyl-7-methoxycarbazol-5-yl]oxyacetic acid

[0123] A mixture of 430mg of the product from Example 3 Part D. 2.0gm of 5% Pd/C, and 20mL of carbitol was heated to reflux and refluxed for 21 hours, cooled, and filtered. The filtrate was diluted with water, aciditied with hydrochloric acid, and extracted well with ethyl acetate. The organic phase was washed with brine, dried over sodium sulfate and evaporated in vacuo. The residue was triturated with dichloromethane and filtered to remove solid tetrahydrocarbazole. The filtrate was evaporated in vacuo to give the title product. 125mg, 31%

Elemental Analyses for C ₂₃ H ₂₀ N ₂ O ₅ ·0.4H ₂ O				
Calculated	C 67 11;	H 5 09.	N 6 81	
Found	C 67 25.	H 5.19.	N 6 75	

Example 5

Preparation of methyl [9-benzyl-4-carbamoyl-7-methoxycarbazol-5-yl|oxyacetic acid

A Preparation of 9-benzyl-4-carbamoyl-5.7-dimethoxycarbazole

[0124] A mixture of 2.0gm of the product from Example 2, 2gm of 5% Pd/C, and 100mL of carbitol was refluxed for 17 hours, filtered while still hot, and the solid washed well with ethyl acetate. The combined filtrates were washed with water, washed with brine, dried over sodium sulfate, and evaporated in vacuo to give subtitled product. 1 4gm., 70%, mp 240-243°C.

Elemental Analyses for C ₂₂ H ₂₀ N ₂ O ₃				
Calculated	C 73.32.	H 5 59.	N 7 77	
Found	C 74.26.	H 5 73:	N 8 04	

B. Preparation of 9-benzyl-4-carbamoyl-5-hydroxy-7-methoxycarbazole

[0125] A solution of 1 2gm. (3.3 mmol) of the product from Part A and 10 mmol of sodium ethanethiolate in 100mL of dimethylformamide was heated at 100°C for 42 hours, cooled, diluted with water, and the pH adjusted to 5-6 with hydrochloric acid. The mixture was extracted with ethyl acetate, the organic phase was washed with water, washed with brin, dried over sodium sulfat, and ivaporated in vacuo. The residue was chromatographed on silica gel eluting with ethyl acetate to give product, 550mg, 48%, mp 234-236°C dec

Elemental Analyses for C ₂₁ H ₁₈ N ₂ O ₃ .				
Calculated	C 72 82	H 5 24.	N 8 09	
Found	C 72.54.	H 5.19	N 8.04	

C Preparation of methyl [9-benzyl-4-carbamoyl-7-methoxycarbazol-5-yl]oxyacetic acid

[0126] A solution of 430mg (1 2 mmol) of the product from Part B in 40mL of dimethylformamide and a few mLs of tetrahydrofuran was treated with 60mg of sodium hydride (60% in mineral oil, 1 5 mmol) for 15 minutes and then with 0.13mL (1 4 mmol) of methylbromoacetate for 16 hours, diluted with ethyl acetate, washed with water, washed with brine, dried over sodium sulfate, and evaporated *in vacuo*. The residue was chromatographed on silica gel eluting with a gradient dichloromethane/ 1-3% methanol to give title compound, 320mg, 62% mp 170-172°C

Elemental A	Elemental Analyses for C ₂₄ H ₂₂ N ₂ O ₅ :			
Calculated	C 68.89.	H 5 30.	N 6 69	
Found	C 68.64.	H 5.41.	N 6 57	

D. Preparation of [9-benzyl-4-carbamoyl-7-methoxycarbazol-5-yl]oxyacetic acid sodium salt

[0127] To a suspension of 60mg (0.15mmol) of the product from Part C in 30mL of ethanol was added 0.075mL of 2.0 N sodium hydroxide. The mixture was heated until solution, cooled, concentrated *in vacuo*, diluted with ethyl acetate, concentrated in vacuo, cooled, and filtered to give product, amorphous solid, 50mg 80% MS (FAB+) 427.2 MS (ion spray) +Q1.405.5 -Q1.403.5

Example 6

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Preparation of 9-benzyl-7-methoxy-5-cyanomethyloxy-1 2,3,4-tetrahydrocarbazole-4-carboxamide

[0128] A solution of 1 47gram (4.19 mmol) of the product from Example 3, Part A in 146ml of dimethylformamide and 31ml, tetrahydrofuran was treated with 210mg, of sodium hydride (60% in mineral oil: 5.24mmol) for 10 minutes and then with 0 39ml (0.66 mmol) of bromoacetonitrile for 3.5 hours. The mixture was diluted with ethyl acetate, washed with water, washed with brine dried over sodium sulfate, and evaporated *in vacuo*. The residue was chromatographed on silica gel eluting with a gradient of 0 to 4% methanol in methylene chloride to give the titled product. 1 34gram 82%

Elemental analysis for C ₂₃ H ₂₃ N ₃ O ₃ :				
Calculated	C 70.93.	H 5 95.	N 10.79	
Theory	C 70 67.	H 6.06.	N 10.83	

Example 7

Preparation of 9-benzyl-7-methoxy-5-(1H-tetrazol-5-yl-methyl)oxy)-1 2.3,4-tetrahydrocarbazole-4-carboxamide

[0129] A portion of the compound of Example 6, 0 45gram (1 16mmol) was heated with 5ml. tri-n-butyl in hydride at 95°C for 1 hour. The reaction was then added to a mixture of 125 ml. acetonitrile, 25ml. tetrahydrofuran, and 50ml. acetic acid and stirred for 2 hours. The mixture was extracted 4 times with hexane and the residue evaporated in vacuo. Crystallization from acetone and hexane afforded the titled compound. 0.30gram, 60%

Elemental analysis for C ₂₃ H ₂₄ N ₆ O ₃ :					
Calculated	C 63.88:	H 5.59;	N 19 43		
Theory	C 64.06;	H 5.64,	N 19.28		

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Preparation 1

Preparation of 5-Carbomethoxy-1,2-dihydro-2-methyl-9H-carbazol-4(3H)-one from 2-bromo-3-nitrobenzoic acid

[0130]

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a) Methyl 2-bromo-3-nitrobenzoate

A solution of 2-bromo-3-nitrobenzoic acid (28 4 g, 115 0 mM), iodomethane (18 0 g, 127 mM), and potassium carbonate (19.0 g, 137 4 mM) in 100 mL dimethylformamide was stirred at room temperature for 72 hours. The mixture was poured into 1 5 liters of water. The resultant precipitate was collected by filtration and dried in vacuo to afford 28 79 g (96%) of methyl 2-bromo-3-nitrobenzoate as a white solid ¹H NMR (DMSO-d6) δ 8.3 (dd, 1H. J=1 and 8 Hz), 7 9 (dd 1H. J=1 and 8 Hz), 7.7 (t, 1H. J=8 Hz), and 3 9 (s. 3H) IR (KBr, cm⁻¹) 2950, 1738, 1541, 1435, 1364, 1298, and 1142, MS (FD) m/e 259, 261

Elemental Analyses for C ₈ H ₆ NO ₄ Br				
Calculated	C. 36 95:	H, 2 33.	N. 5 39	
	C, 37 14.			

b) Methyl 2-bromo-3-aminobenzoate

Hydrogen gas was passed through a solution of methyl 2-bromo-3-nitrobenzoate (0 20 g, 0 77 mM) and 0 1 g of 3% sulfided platinum on carbon in 25 mL ethyl acetate for 24 hours at room temperature. The catalyst was removed by filtration through celite. Concentration of the filtrate afforded 0 175 g (99%) of methyl 2-bromo-3-aminobenzoate as a yellow oil. H NMR (CDCl₃) δ 7.15 (t, 1H. J=8 Hz), 7 1 (dd. 1H J=1 and 8 Hz). 6 8 (dd. 1H. J=1 and 8 Hz). and 3.95 (s, 3H). IR (CHCl₃, cm⁻¹) 3550, 3380, 2980, 2900, 1729, 1613, 1465, 1451, 1434, 1324, 1266, and 1025 MS (FD) m/e 230, 232.

Elemental Analyses for C ₈ H ₈ NO ₂ Br:				
Calculated	C, 41.77:	H, 3 51;	N, 6 09.	
Found	C, 42.01:	H, 3 29.	N, 6 00	

c) 3-(3-Carbomethoxy-2-bromoanilino)-5-methyl-cyclohex-2-en-1-one

A mixture of methyl 2-bromo-3-aminobenzoate (10 2 g. 44 3 mM) and 5-methyl-1.3-cyclohexanedione (6.15 g. 48 7 mM) was heated at 125 °C under a stream of nitrogen for 1 5 hours. The resultant solid was triturated with ethyl acetate to afford 9.98 g (67%) of 3-(3-carbomethoxy-2-bromoanilino)-5-methyl-cyclohex-2-en-1-one 1 H NMR (CDCl₃) $_{5}$ 7 55 (m, 2H), 7 35 (dd. J=8 and 8 Hz, 1H), 6.4 (bs, 1H), 5 55 (s, 1H), 3 95 (s, 3H), 2 6-2 0 (m, 5H), 1 15 (d, J=7 Hz, 3H). MS (ES) rm/e 338, 340.

d) 5-Carbomethoxy-1,2-dihydro-2-methyl-9H-carbazol-4(3H)-one

A suspension of 3-(3-carbomethoxy-2-bromoanilino)-5-methyl-cyclohex-2-en-1-one (9 98 g, 29 5 mM), palladium acetate (0.66 g, 2.95 mM), tri-o-tolylphosphine (1.8 g, 5 9 mM), and triethylamine (5.10 ml, 36.6 mM) in 75 mL acetonitrile was heated at reflux for 3 hours. The solvent was removed *in vacuo*. The residue was dissolved in methylene chloride, washed with 1 N HCI, then with saturated brine, dried over anhydrous socium sulfate, filtered, and concentrated to afford 11 g of crude product. Purification by HPLC on silica g. I (elution with gradient methylene chloride/ethyl acetat...) afforded 5.7 g. (75%) of 5-carbomethoxy-1,2-dihydro-2-methyl-9H-carbazol-4 (3H)-one. ¹H NMR (CDCI₃) δ.9.5 (bs. 1H), 7.4 (d, J=8 Hz, 1H), 7.35 (d. J=8 Hz, 1H), 7.2 (dd. J=8 and 8 Hz, 1H),

4.0 (s 3H). 2 9 (dd. J=13 and 4 Hz. 1H), 2 55 (m 2H), 2 4 (m. 1H), 2 25 (dd. J=15 and 9 Hz $\,$ 1H), 1.05 (d $\,$ J=7 Hz. 3H) MS (ES) m/e 226, 258

EXAMPLE 8

Preparation of {9-[(phenyl)methyl]-5-carbamoyl-2-methyl-carbazol-4-yl}oxyacetic acid

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25 A 9-[(Phenyl)methyl]-5-carbomethoxy-2-methyl-1.2-dihydrocarbazol-4(3H)-one

[0132] A suspension of 5-carbornethoxy-1.2-dihydro-2-methyl-9H-carbazol-4(3H)-one (2.0 g, 7 77 mM), benzyl bromide (0.94 ml, 7.93 mM), and potassium carbonate (2.15 g, 15.5 mM) in 39 mL DMF was stirred at room temperature for 22 hours. The mixture was diluted with ethyl acetate and 1N HCI. The layers were separated and the aqueous layer extracted with ethyl acetate. The combined ethyl acetate layers were extracted with 1N HCI twice, once with water and once with brine. After drying (NaSO₄) evaporation in vacuo afforded 2.61g (97%) of 9-[(phenyl)methyl]-5-carborneth-oxy-2-methyl-1.2-dihydrocarbazol-4(3H)-one. 1 H NMR (CDCl₃) δ 7 6-7 4 (m. 6H), 7 0 (m. 2H), 5 4 (s, 2H), 4 05 (s. 3H), 3 0 (m. 1H), 2.65-2 45 (m. 3H). 2 3 (dd, J=15 and 9 Hz, 1H). 1.1 (d. J=7 Hz, 3H). MS (ES) m/e 316. 348

5 B 9-[(Phenyl)methyl]-2-methyl-4-hydroxy-5-carbomethoxy carbazole

[0133] A solution of the 9-{(phenyl)methyl}-5-carbomethoxy-2-methyl-1 2-dihydrocarbazol-4(3H)-one (1 30 g. 3 74 mM) and 2,3-dichloro-5,6-dicyano-1,4-benzoquinone (0 93 g, 4 12 mM) in 37 mL of toluene was stirred between 80-90 °C for 5 hours. The mixture was purified by column chromatography on silica gel (elution with methylene chloride) to afford 270 mg (21%) of the 9-{(phenyl)methyl}-2-methyl-4-hydroxy-5-carbomethoxy carbazole ¹H NMR (CDCl₃) δ 10.45 (s. 1H), 8 0 (d. J=8 Hz, 1H), 7 55 (d, J=8 Hz, 1H), 7 4 (dd, J=8 and 8 Hz, 1H), 7 3 (m. 3H), 7 05 (m. 2H), 6.65 (s. 1H), 6 6 (s. 1H), 5 5 (s. 2H), 4.1 (s. 3H) 2.45 (s, 3H) MS (ES) m/e 314, 346

C 9-[(Phenyl)methyl]-2-methyl-4-hydroxy-5-carbamoyl carbazole

[0134] A solution of the 9-[(phenyl)methyl]-2-methyl-4-hydroxy-5-carbomethoxy carbazole (470 mg. 1 36 mM) in 20 ml THF and 80 mL concentrated aqueous ammonium hydroxide was sonicated for 6 hours at 30-40 °C. The precipitated solid was filtered and triturated with Et₂O to afford 200 mg (44%) of 9-[(phenyl)methyl]-2-methyl-4-hydroxy-5-carbamoyl carbazole 1 H NMR (DMSO-d6) 8 10 5 (s. 1H), 8 8 (bs, 1H), 8 4 (bs. 1H), 7 75 (m, 1H), 7 4 (m. 2H), 7 25 (m, 3H), 7 1 (m, 2H), 6 95 (s. 1H), 6 45 (s. 1H), 5 65 (s. 2H), 2 4 (s. 3H) MS (ES) m/e 314, 331

D (9-{(Phenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid. methyl ester

[0135] 60% Sodium hydride in mineral oil (30.4 mg. 0.76 mM) was added to a solution of 9-[(phenyl)methyl]-2-methyl-4-hydroxy-5-carbamoyl carbazole (202 mg, 0.61 mM) in 21 mL DMF and 4.6 ml THF After 10 minutes, methyl bro-moacetate (77 µl. 0.482 mM) was added and the resultant mixture stirred at room temperature for 1.25 hours. The mixture was diluted with thyl acetate and washed with H₂O. The aqueous layer was extracted with ethyl acetate. The combined organic layers were extracted with saturated brin., dried over sodium sulfat., filtered, and concentrated

The residue was purified by column chromatography on silica get (-lution with ethyl acetate) ι afford 184 mg (75%) of {9-{(phenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl}oxyacetic acid methyl ester. ¹H NMR (DMSO-d6) δ 7 55 (d, 1H, J=8 Hz), 7 5 (bs. 1H), 7 4-7.15 (m. 9H), 6 45 (s, 1H), 5.7 (s. 2H), 4 9 (s. 2H), 3.75 (s, 3H), 2.4 (s. 3H), MS (FD) m/e 386, 403

Elemental Analyses for C ₂₄ H ₂₂ N ₂ O ₄			
Calculated	C, 71.63.	H, 5.51:	N, 6 96
Found	C, 71 74.	H, 5.81:	N, 6 69

E (9-[(Phenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl)oxyacetic acid

[0136] A solution of the (9-[(phenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl)oxyacetic acid. methyl ester (83.5 mg. 0.207 mM) and 1.0 mL (2.0 mM) of 2 N NaOH in 10 mL of ethanol was stirred for 45 minutes at 25°C. The resultant white precipitate was collected by filtration, washed with a small amount of EtOH, then dried *in vacuo* to afford 48 mg (56%) of the (9-[(phenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid sodium salt as a white powder MS (ES) m/e 314, 372–389. 411. The filtrate was acidfied with 1N HCl to pH =1. After cooling to 5°C, the resultant white precipitate was collected by filtration, washed with water, then dried *in vacuo* to afford 24 mg (29%) {9-[(phenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid. ¹H NMR (DMSO-d6) δ 11.2 (bs. 1H), 7.8 (bs. 1H), 7.6 (d. J=8 Hz, 1H), 7.45 (bs. 1H), 7.4-7.05 (m. 8H), 6.45 (s. 1H), 5.65 (s. 2H), 4.9 (s. 2H), 2.4 (s. 3H). MS (ES) m/e 314, 372, 389.

Elemental Analyses for C ₂₃ H ₂₀ N ₂ O ₄ .			
Calculated	C. 71.12:	H. 5 19,	N. 7.21.
Found	C, 71 33	H, 5 47:	N, 7 19

EXAMPLE 9

Preparation of {9-[(3-fluorophenyl)methyl]-5-carbamoyl-2-methyl-carbazol-4-yl}oxyacetic acid

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A 9-[(3-Fluorophenyl)methyl]-5-carbomethoxy-2-methyl-1.2-dihydrocarbazol-4(3H)-one

[0138] A suspension of 5-carbomethoxy-1 2-dihydro-2-methyl-9H-carbazol-4(3H)-one (1 0 g, 3.89 mM), 3-fluorobenzyl bromide (0.48 ml, 3.97 mM), and potassium carbonate (1 07 g, 7 78 mM) in 20 mL DMF was stirred at room temperature for 22 hours. The mixture was diluted with EtOAc and 1N HCl. The layers were separated and the aqueous extracted with EtOAc. The combined EtOAc layers were extracted with 1N HCl. water, then brine. After drying (Na₂SO₄), evaporation in vacuo afforded 1.38g (97%) of the 9-{(3-fluorophenyl)methyl]-5-carbomethoxy-2-methyl-1,2-dihydrocarbazol-4(3H)-one. ¹H NMR (CDCl₃) & 7 4-7.2 (m. 5H), 7 0 (m, 1H). 6.75 (m, 2H). 5.4 (s, 2H), 4 05 (s, 3H), 3 0 (m. 1H). 2.65-2 45 (m. 3H). 2 3 (dd. J=15 and 9 Hz, 1H), 1.1 (d, J=7 Hz, 3H) MS (ES) m/e 334, 366

B 9-[(3-Fluoroph nyl)methyl]-2-methyl-4-hydroxy-5-carbomethoxy carbazole

[0139] A solution of the 9-[(3-fluorophenyl)methyl]-5-carbomethoxy-2-methyl-1.2-dihydrocarbazol-4(3H)-one (1 37 g. 3 75 mM) and 2.3-dichloro-5 6-dicyano-1.4-benzoquinone (0.94 g. 4 13 mM) in 38 mL of toluene was stirred between 80-90 °C for 3 hours. The mixture was purified by column chromatography on silica gel (elution with methylene chloride) to afford 0 33 g (24%) of 9-[(3-fluorophenyl)methyl]-2-methyl-4-hydroxy-5-carbomethoxy carbazole. ¹H NMR (CDCl₃) δ 10 45 (s. 1H), 8 0 (d, J=8 Hz. 1H), 7 55 (d. J=8 Hz, 1H), 7.4 (dd, J=8 and 8 Hz. 1H), 7 3 (m, 2H), 6.95 (m. 1H), 6.85 (d. J=8 Hz. 1H), 6 75 (m, 1H), 6 65 (s, 1H), 5 5 (s, 2H), 4 1 (s, 3H), 2 45 (s, 3H), MS (ES) m/e 332, 364

10 C 9-[(3-Fluorophenyl)methyl]-2-methyl-4-hydroxy-5-carbamoyl carbazole

[0140] A solution of the 9-[(3-fluorophenyl)methyl]-2-methyl-4-hydroxy-5-carbomethoxy carbazole (0.33 g. 0 91 mM) in 14 ml THF and 54 mL concentrated aqueous ammonium hydroxide was sonicated for 6 5 h at 30-40 °C. The precipitated solid was filtered, washed with water, and triturated with 35 ml Et20 to afford 182 mg (57%) of 9-[(3-fluorophenyl)methyl]-2-methyl-4-hydroxy-5-carbamoyl carbazole 1 H NMR (DMSO-d6) 5 10 5 (s, 1H), 8 8 (bs, 1H), 8.4 (bs, 1H), 7.5 (m, 1H), 7.4 (m, 2H), 7.25 (m, 1H), 7.05 (m, 1H), 6 9 (m, 2H), 6 85 (d, J=8 Hz, 1H), 6 45 (s, 1H), 5 65 (s, 2H), 2.4 (s, 3H), MS (ES) m/e 332, 349

D [9-[(3-Fluorophenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid, methyl ester

[0141] 60% Sodium hydride in mineral oil (25 9 mg, 0.65 mM) was added to a solution of 9-{(3-fluorophenyl)methyl]-2-methyl-4-hydroxy-5-carbamoyl carbazole (181 mg, 0.52 mM) in 18 mL DMF and 3.9 ml THF. After 10 minutes, methyl bromoacetate (66 μ l, 0.70 mM) was added and the resultant mixture stirred at room temperature for 1.25 hours. The mixture was diluted with ethyl acetate and washed with H₂O. The aqueous layer was extracted with ethyl acetate. The combined organic layers were extracted with saturated brine, dried over sodium sulfate, filtered, and concentrated. The residue was purified by column chromatography on silical gel (eliution with methylene chloride/acetone gradient) to afford 170 mg (78%) of the (9-{(3-fluorophenyl)methyl}-2-methyl-5-carbamoylcarbazol-4-yl}oxyacetic acid. methyl ester. ¹H NMFI (DMSO-d6) δ 7.55 (d, 1H, J=8 Hz), 7.5 (bs, 1H), 7.4-7.25 (m. 2H), 7.2 (bs, 1H), 7.05 (m, 3H), 6.95 (d, J=8 Hz), 6.45 (s. 1H), 5.65 (s. 2H), 4.9 (s. 2H), 3.75 (s. 3H), 2.4 (s. 3H) MS (FD) m/e 404, 421

Elemental A			
Calculated	C, 68 56.	H, 5.03	N, 6 66.
Found	C, 67.75	H. 4.95.	N. 6 33

E {9-[(3-Fluorophenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid

[0142] A solution of {9-[(3-fluorophenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl}oxyacetic acid, methyl ester (68 3 mg. 0.162 mM) and 0.81 mL (1 6 mM) of 2 N NaOH in 8 1 mL of ethanol was stirred for 30 minutes at 25 °C. The resultant white precipitate was collected by filtration, washed with a small amount of EtOH, then dried *in vacuo* to afford 11 mg (16%) of {9-[(3-fluorophenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl}oxyacetic acid, sodium salt as a white powder. The filtrate was acidified with 1N HCI to pH = 2. After cooling to 5°C, the resultant white precipitate was collected by filtration, washed with water, then dried *in vacuo* to afford 31 mg (47%) {9-[(3-fluorophenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl}oxyacetic acid. ¹H NMR (DMSO-d6) & 7.75 (bs. 1H). 7.6 (d, 1H, J=8 Hz). 7.45 (bs. 1H), 7.4-7.25 (m. 2H), 7.05 (m. 3H). 6.95 (d, J=8 Hz, 1H), 6.9 (d, J=8 Hz, 1H). 6.45 (s, 1H). 5.65 (s, 2H), 4.8 (s, 2H), 2.4 (s, 3H). MS (ES) m/e 390. 407. Recrystallization from acetone/hexane provided an analytical sample:

Elemental A	Elemental Analyses for C ₂₅ H ₁₉ FN ₂ O ₄ :		
Calculated	C, 67.97.	H. 4 71:	N, 6.89.
	C. 68.21:		

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EXAMPLE 10

Preparation of [9-[(3-methylphenyl)methyl]-5-carbamoyl-2-methyl-carbazol-4-yl]oxyacetic acid

5 **[0143]**

A. 9-[(3-Methylphenyl)methyl]-5-carbomethoxy-2-methyl-1.2-dihydrocarbazol-4(3H)-one

[0144] A suspension of 5-carbomethoxy-1.2-dihydro-2-methyl-9H-carbazol-4(3H)-one (1.0 g, 3.89 mM). 3-methylbenzyl bromide (0.54 ml, 3.97 mM), and potassium carbonate (1.07 g, 7.78 mM) in 20 mL DMF was stirred at room temperature for 19 hours. The mixture was diluted with EtOAc and 1N HCI. The layers were separated and the aqueous layer extracted with EtOAc. The combined EtOAc layers were extracted with 1N HCI, water, then brine. After drying (NaSO₄), evaporation in *vacuo* afforded 1.41g (100%) of 9-[(3-methylphenyl)methyl]-5-carbomethoxy-2-methyl-1,2-dihydrocarbazol-4(3H)-one. ¹H NMR (CDCl₃) & 7.4-7.05 (m. 6H), 6.8 (m. 1H), 5.3 (s. 2H), 4.05 (s. 3H), 3.0 (m. 1H), 2.7-2.3 (m. 4H), 2.3 (s. 1H), 1.2 (d. J=7 Hz, 3H) MS (ES) m/e 362

B 9-[(3-Methylphenyl)methyl]-2-methyl-4-hydroxy-5-carbomethoxy carbazole

[0145] To a solution of 9-[(3-methylphenyl)methyl]-5-carbomethoxy-2-methyl-1.2-dihydrocarbazol-4(3H)-one (1 41 g, 3.89 mM) in 13 ml dioxane was added 60% sodium hydride in mineral oil (0 36 g, 8.95 mM). The reaction was stirred 6 minutes, then methyl benzenesultinate (0.81 ml, 6.22 mM) was added. The reaction was stirred an additional 6 hours, then diluted with 20 ml dioxane and 0 51 ml acetic acid. The mixture was refluxed 30 minutes, diluted with ethyl acetate, and extracted with saturated NaHCO $_3$ brine, then water. After drying (NaSO $_4$), evaporation in vacuo afforded 2 30g. The mixture was purified by column chromatography on silicated (elution with toluene/methylene chloride) to afford 0.92 g (66%) of 9-[(3-methylphenyl)methyl]-2-methyl-4-hydroxy-5-carbomethoxy carbazole. H NMR (CDCI $_3$) δ 10.45 (s, 1H), 8.0 (d, J=8 Hz, 1H), 7.55 (d, J=8 Hz, 1H), 7.4 (dd, J=8 and 8 Hz, 1H), 7.4 (dd, J=8 and 8 Hz, 1H), 7.05 (d, J=8 Hz, 1H), 6.9 (s, 1H), 6.85 (d, J=8 Hz, 1H), 6.75 (s, 1H), 6.7 (s, 1H), 5.45 (s, 2H), 4.1 (s, 3H), 2.4 (s, 3H), 2.25 (s, 3H) MS (ES) m/e 328, 360

5 C. 9-[(3-Methylphenyl)methyl]-2-methyl-4-hydroxy-5-carbamoyl carbazole

[0146] A solution of 9-[(3-methylphenyl)methyl]-2-methyl-4-hydroxy-5-carbomethoxy carbazole (0 92 g. 2 56 mM) in 38 ml THF and 154 mL concentrated aqueous ammonium hydroxide was sonicated for 6 h at 30-40 °C. The precipitated solid was filtered, washed with water to afford 0 55g (63%) of 9-[(3-methylphenyl)methyl]-2-methyl-4-hydroxy-5-carbamoyl carbazole. 1 H NMR (DMSO-d6) δ 10.5 (s, 1H), 3.8 (bs, 1H), 8.4 (bs. 1H), 7.75 (m, 1H), 7.4 (m, 2H), 7.15 (dd, J=8 and 8 Hz, 1H), 7.05 (m, 1H), 7.0 (s, 1H), 6.9 (s. 1H), 6.8 (d, J=8 Hz, 1H), 6.45 (s, 1H), 5.65 (s, 2H), 2.4 (s, 3H), 2.2 (s, 3H) MS (ES) m/e 328, 345

D {9-{(3-Methylphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl}oxyacetic acid, methyl ester

[0147] 60% Sodium hydride in mineral oil (79.8 mg, 2 0 mM) was added to a solution of 9-((3-methylphenyl)methyl)-2-methyl-4-hydroxy-5-carbamoyl carbazole (0 55 g, 1.60 mM) in 56 mL DMF and 12 ml THF. After 10 minutes, methyl bromoacetate (0 20 ml. 2.16 mM) was added and the r sultant mixture stirred at room temperature f r 1 hour. The

mixture was diluted with ethyl acetate and washed with $\rm H_2O$. The aqueous layer was extracted with ethyl acetate. The combined organic layers were extracted with saturated brine, dried over sodium sulfate, filtered, and concentrated. The residue was purified by column chromatography on silica gel (elution with methylene chloride/acetone gradient) to afford 0.51 g (76%) of $\{9-\{(3-methylphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl\partial oxygacetic acid, methyl ester <math>^{1}$ H NMR (DMSO-d6) δ 7 5 (m, 2H), 7.35 (dd, J=8 and 8 Hz, 1H), 7.2-7 1 (m, 2H), 7.05-6.95 (m, 4H), 6.35 (d, J=8 Hz, 1H), 6.45 (s, 1H), 5.6 (s, 2H), 4.9 (s, 2H), 3.75 (s, 3H), 2.4 (s, 3H), 2.2 (s, 3H), MS (FD) m/e 400, 417.

Elemental A	nalyses for (C ₂₅ H ₂₄ N ₂ O	4
Calculated	C. 72.10;	H. 5.81;	N, 6.73.
Found	C, 71.94;		

E {9-{(3-Methylphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid

15 [0148] A solution of (9-[(3-methylphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid, methyl ester (0 12 g. 0 288 mM) and 1 4 mL (2 8 mM) of 2 N NaOH in 14 mL of ethanol was stirred for 30 minutes at 25 °C. The reaction was acidified with 1N HCl to pH =2. After stirring 1 hour, the resultant white precipitate was collected by filtration, washed with water, then dried in vacuo to afford 114 mg (95%) {9-[(3-methylphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid. ¹H NMR (DMSO-d6) δ 11.1 (bs, 1H), 7 75 (bs. 1H), 7 6 (d. J=8 Hz. 1H), 7 45 (bs. 1H), 7 35 (dd. J=8 and 8Hz. 1H), 7.2-7 0 (m, 5H) 6.85 (d. J=8Hz. 1H), 6 45 (s. 1H), 5 6 (s. 2H), 4 8 (s. 2H), 2 4 (s. 3H), 2 2 (s. 3H) MS (ES) m/e 386, 403. Recrystallization from acetone/hexane provided an analytical sample.

Elemental A	nalyses for (C ₂₄ H ₂₂ N ₂ O	4
Calculated	C. 71 63.	H. 5 51;	N, 6 96
	C. 71 88.		

Preparation 2

Preparation of 5-Carbomethoxy-1,2-dihydro-2-(4-trifluoromethylphenyl)-9H-carbazol-4(3H)-one from 2-bromo-3-nitrobenzox acid

[0149]

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a) Methyl 2-bromo-3-nitrobenzoate

A solution of 2-bromo-3-nitrobenzoic acid (28 4 g, 115 0 mM), indomethane (19 0 g, 127 mM), and potassium carbonate (19.0 g, 137 4 mM) in 100 mL DMF was stirred at room temperature for 72 hours. The mixture was poured into 1.5 liters of $\rm H_2O$. The resultant precipitate was collected by filtration and dried *in vacuo* to afford 28.79 g (96%) of methyl 2-bromo-3-nitrobenzoate as a white solid. ¹H NMR (DMSO-d6) δ 8 3 (dd. 1H. J=1 and 8 Hz), 7.7 (t. 1H, J=6 Hz), and 3.9 (s, 3H). IR (KBr. cm⁻¹) 2950, 1738, 1541, 1435, 1364, 1298, and 1142 MS (FD) m/e 259, 261

Elemental Analyses for C ₈ H ₆ NO ₄ Br			
Calculated	C. 36 95:	H, 2.33;	N, 5.39
Found	C, 37 14:	H, 2.37:	N, 5.45.

b) Methyl 2-bromo-3-ammobenzoate

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Hydrogen gas was passed through a solution of methyl 2-bromo-3-nitrobenzoate (0.20 g. 0.77 mM) and 0.1 g of 3% sulfided platinum on carbon in 25 mL ethyl acetate for 24 hours at room temperature. The catalyst was removed by filtration through celite. Concentration of the filtrate afforded 0.175 g (99%) of methyl 2-bromo-3-aminobenzoate as a yellow oil 1 H NMR (CDCl₃) δ 7.15 (t, 1H, J=8 Hz), 7.1 (dd, 1H, J=1 and 8 Hz), 6.8 (dd, 1H, J=1 and 8 Hz), and 3.95 (s. 3H) IR (CHCl₃, cm⁻¹) 3550, 3380, 2980, 2900, 1729, 1613, 1465, 1451, 1434, 1324, 1266, and 1025 MS (FD) m/e 230, 232

Elemental A	nalyses for C	C ₈ H ₈ NO ₂ Br	,
Calculated	C, 41.77;	H, 3 51.	N, 6.09
Found	C. 42.01.	H, 3 29.	N, 6.00.

c) 3-(3-Carbomethoxy-2-bromoanilino)-5-(4-trifluoromethylphenyl-cyclohex-2-en-1-one

A mixture of methyl 2-bromo-3-aminobenzoate (10.2 g. 44.3 mM) and 5-(4-trifluoromethylphenyl)-1,3-cyclohexanedione (1 77 g. 6 93 mM) was heated at 150 °C under a stream of nitrogen for 20 minutes. The resultant solid was triturated with 4 1 EtOAc/Et₂O to afford 2.18 g (74%) of 3-(3-carbomethoxy-2-bromoanilino)-5-(4-trifluoromethylphenyl)-cyclohex-2-en-1-one, ¹H NMR (DMSO-d6) δ8.9 (s. 1H), 7 75-7.5 (m, 7H), 3.9 (s. 3H), 3.5 (m, 1H), 2.9 (dd, J=14 and 9 Hz, 1H), 2.7 (dd, J=14 and 4 Hz, 1H), 2.55 (dd, J=14 and 9 Hz, 1H), 2.35 (dd, J=14 and 4 Hz, 1H) MS (ES) m/e 368, 370

d) 5-Carbornethoxy-1,2-dihydro-2-(4-trifluoromethylphenyl)-9H-carbazol-4(3H)-one

A suspension of 3-(3-carbomethoxy-2-bromoanilino)-5-(4-trifluoromethylphenyl)-cyclohex-2-en-1-one (2.18 g. 4 66 mM) palladium acetate (0 10 g. 0 47 mM), tri-o-tolylphosphine (0 28 g. 0 93 mM), and triethylamine (0 8 ml, 5 78 mM) in 12 mL acetonitrile was heated at reflux for 3 hours. The solvent was removed *in vacuo*. The residue was dissolved in methylene chloride, washed with 1 N HCl, then with saturated brine, dried over anhydrous sodium sulfate. Intered, and concentrated to afford 2.21 g. Purification by HPLC on silica gel (elution with gradient methylene chloride/ethyl acetate) afforded 1 57 g (87%) of the 5-carbomethoxy-1,2-dihydro-2-(4-trifluoromethylphenyl)-9H-carbazol-4(3H)-one. ¹H NMR (CDCl₃) δ 9 2 (bs. 1H), 7.6 (d, J=8 Hz, 2H), 7 45-7.35 (m, 5H), 7.25 (d, J=8 Hz, 2H), 3 55 (m, 1H), 3.2-3 0 (m, 2H), 2.7 (m, 2H). MS (ES) m/e 356.388.

EXAMPLE 11

Preparation of [9-[(phenyl)methyl]-5-carbamoyl-2-(4-trifluoromethylphenyl)-carbazol-4-yl]oxyacetic acid

[0150]

a) 9-{(Phenyl)methyl]-5-carbomethoxy-2-(4-trifluoromethylphenyl)-1.2-dihydrocarbazol-4(3H)-on

A suspension 1 5-carbomethoxy-1.2-dihydro-2-(4-trifluoromethylphenyl)-9H-carbazol-4(3H)-one (1 57 g. 4 05 mM). benzyl bromide (0 49 ml. 4 13 mM), and potassium carbonat (1 12 g. 8 10 mM) in 20 mL DMF was stirred at room temperature for 22 hours. The mixture was diluted with EtOAc and IN HCI. The layers were separated and the aqueous extracted with EtOAc. The combined EtOAc layers were extracted with 1N HCI, water, then brine After drying (NaSO₄), evaporation in *vacuo* afforded 1 87g (96%) of the 9-[(phenyl)methyl]-5-carbomethoxy-2-(4-trifluoromothylphenyl)-1 2-dihydrocarbazol-4(3H)-one. 1H NMR (CDCl₃) δ 7 6 (d. J=8 Hz. 2H), 7 45-7 25 (m. 8H), 6.95 (m. 2H) 5 35 (s. 2H), 4 05 (s. 3H), 3 65 (m. 1H), 3 2 (dd. J=16 and 5 Hz. 1H), 3 0 (dd. J=16 and 10 Hz. 1H), 2.8 (m. 2H) MS (ES) m/e 478

b) 9-[(Phenyl)methyl]-2-(4-trifluoromethylphenyl)-4-hydroxy-5-carbomethoxy carbazole

A solution of the 9-{(phenyl)methyl]-5-carbomethoxy-2-(4-trifluoromethylphenyl-1 2-dihydrocarbazol-4(3H)-one (1.87 g. 3 92 mM) and 2.3-dichloro-5.6-dicyano-1.4-benzoquinone (0.89 g. 3 92 mM) in 39 mL of toluene was refluxed for 25 minutes. The mixture was purified by column chromatography on silica gel (elution with toluene) to afford 1.10 g (59%) of the 9-[(phenyl)methyl]-2-(4-trifluoromethylphenyl)-4-hydroxy-5-carbomethoxy carbazole. H NMR (CDCl₃) δ 10.65 (s. 1H). 8.05 (d. J=8 Hz, 1H), 7.8 (m. 3H), 7.65 (m. 3H), 7.6 id, J=8 Hz, 1H), 7.45 (dd. J=8 and 8 Hz, 1H), 7.3-7.1 (m. 2H), 5.6 (s. 2H), 4.1 (s. 3H) MS (ES) m/e 444, 476

c) 9-[(Phenyl)methyl]-2-(4-trifluoromethylphenyl)-4-hydroxy-5-carbamoyl carbazole

A solution of the 9-{(phenyl)methyl]-2-(4-trifluoromethylphenyl)-4-hydroxy-5-carbomethoxy carbazole (1 10 g. 2 31 mM) in 35 ml THF and 140 mL concentrated aqueous ammonium hydroxide was sonicated for 6 hours at 30-40 °C. The precipitated solid was filtered and washed with water. Trifuration with Et₂O then with 2:1 Et₂O/ CH₂Cl₂ afforded 0 20g (19%) of the 9-{(phenyl)methyl]-2-i4-trifluoromethylphenyl)-4-hydroxy-5-carbamoyl carbazole 1 H NMR (DMSO-d6) δ 10 8 (s. 1H), 8.9 (bs. 1H), 8.45 (bs, 1H), 8.0 (d. J=8 Hz. 2H), 7.8 (d. J=8 Hz. 2H), 7.6 (s. 1H), 7.5 (m. 2H), 7.3-7.1 (m. 6H), 7.0 (s. 1H), 5.8 (s. 2H), MS (ES) m/e 444, 461

d) (9- [(Phenyl) methyl]-2-(4-trifluoromethylphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid. methyl ester

60% Sodium hydride in mineral oil (22 mg, 0.54 mM) was added to a solution of the 9-{(phenyl)methyl]-2-(4-trifluoromethylphenyl)-4-hydroxy-5-carbamoyl carbazole (0.20 g, 0.43 mM) in 15 mL DMF and 3 ml THF. After 7 minutes, methyl bromoacetate (56 μ l, 0.59 mM) was added and the resultant mixture stirred at room temperature for 1 hour. The mixture was diluted with ethyl acetate, and washed with H₂O. The aqueous layer was extracted with ethyl acetate. The combined organic layers were extracted with saturated brine, dired over sodium sulfate, filtered, and concentrated. The residue was purified by column chromatography on silica gel (elution with ethyl acetate) to afford 0.19 g (84%) of the {9-{(phenyl)methyl]-2-{4-trifluoromethylphenyl}-5-carbamoylcarbazol-4-yl} oxyacetic acid methyl ester. H. NMR (DMSO-d6) δ 8.0 (d, J=8 Hz, 2H), 7.785 (d, J=8 Hz, 2H), 7.7 (s, 1H), 7.6 (d, J=8 Hz, 1H), 7.6 (bs, 1H), 7.4 (dd, J=8 and 8 Hz, 1H), 7.3-7.1 (m, 6H), 7.1 (d, J=8 Hz, 1H), 7.0 (s, 1H), 5.8 (s, 2H), 5.1 (s, 2H), 3.7 (s, 3H). MS (FD) m/e 516,533

Elemental Analyses for C ₃₀ H ₂₃ F ₃ N ₂ O ₄			
Calculated	C. 67.66.	H, 4 36.	N, 5.26.
Found	C. 68.38;		N 5.67,

e) (9-[(Phenyl)methyl]-2-(4-trifluoromethylphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid

A solution of the {9-[(phenyl)methyl]-2-(4-trifluoromethylphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid. methyl ester (101 mg. 0.19 mM) and 0.95 mL (1.9 mM) of 2 N NaOH in 9.5 mL of ethanol was stirred for 30 minutes at 25 °C. The reaction was acidified with IN HCl to pH =2. After stirring 30 minutes, the resultant white precipitate was collected by filtration, washed with water, then dried *in vacuo* to afford 73 mg (75%) {9-[(phenyl)methyl]-2-(4-trifluoromethylphenyl)-5-carbamoylcarbazol-4-yl]oxyacetic acid. ¹H NMR (DMSO-d6) δ 11.0 (bs. 1H), 8 0 (d. J=8 Hz, 2H), 7 85 (d, J=8 Hz, 2H), 7.8 (bs. 1H), 7.7 (s, 1H), 7 65 (d, J=8 Hz, 1H), 7.4 (m. 2H), 7 3-7 1 (m, 6H), 7 0 (s. 1H), 5 8 (s. 2H), 5.0 (s. 2H) MS (ES) m/e 502.519

Elemental Analyses for C ₂₉ H ₂₁ F ₃ N ₂ O ₄			
Calculated	C, 67 17,	H, 4 09:	N. 5 40.
	C, 67 05.		

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Example 12

Preparation of 9-benzyl-5-(2-methanesulfonamido)ethyloxy-7-methoxy-1.2 3 4-tetrahydrocarbazole-4-carboxamide

A. Preparation of 5-(2-amino)ethyloxy-9-benzyl-7-methoxy-1,2,3.4-tetrahydrocarbazole-4-carboxamide

[0151] To 1.93ml (1.93mmol) 1M lithium aluminum hydride/THF in 13ml THF at 0°C was added H₂SO₄(53µl. 0.97mmol) dropwise over 5 min. The mixture was allowed to stir at room temperature 1 hour, then a solution of 9-benzyl-7-methoxy-5-cyanomethyloxy-1,2,3,4-tetrahydrocarbazole-4-carboxamide (0.50g, 1.29mmol) in 13ml THF was added dropwise at a rate which kept the temperature below 26°C. After an additional 45 minutes, the reaction was quenched with 0.5ml 1.1 THF/H₂O, 0.75ml 13% NaOH, and finally 80µl H₂O. The reaction was diluted with EtOAc and saturated NaHCO₃, and the layers separated. The organic layer was extracted with brine, dried over sodium sulfate, and evaporated in vacuo. The residue was chromatographed on silica gel eluting with 9.1 0.1 CH₂Cl₂/MeOH/NH₄OH to give the subtitled product (0.28g, 55%). MS (ES+) 394

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B Preparation of 9-benzyl-5-(2-methanesulfonamido)ethyloxy-7-methoxy-1 2,3.4-tetrahydrocarbazole-4-carboxamide

[0152] To 0 20g (0 51mmol) of the product from Part A in 10ml THF at 0°C was added triethylamine (71µl, 0.5lmmol) and methanesulfonylchloride (39µl, 0.51mmol). After 40 minutes at 0°C, the reaction was diluted with EtOAc and saturated NaHCO₃, and the layers separated. The organic layer was extracted with brine, dried over sodium sulfate, and evaporated in vacuo. The residue was chromatographed on silica gel eluting with 20.1 CH₂Cl₂/MeOH and crystallized from EtOAc/hexane to give the titled product (0.13g, 54%). MS (ES+) 472

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Elemental A	nalyses for	C ₂₄ H ₂₉ N ₃ C	D ₅ S
Calculated	C 61.13.	H 6 20:	N 8 91
Found	C 61.04,	H 6 16.	N 9 21

30 Example 13

Preparation of 9-benzyl-4-(2-methanesulfonamido)ethyloxy-2-methoxycarbazole-5-carboxamide

A Preparation of 4-(2-amino)ethyloxy-9-benzyl-2-methoxycarbazole-5-carboxamide

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[0153] To 1 25ml (1 25mmol) 1M lithium aluminum hydride/THF in 8 3ml THF at 0°C was added H₂SO₄(34 5μl, 0.63mmol) dropwise over 5 min. The mixture was allowed to stir at room temperature 1 hour, then a suspension of 9-benzyl-4-cyanomethyloxy-2-methoxycarbazole-5-carboxamide (0 32g, 0.93mmol) in 8.3ml THF was added dropwise at a rate which kept the temperature below 26°C. After an additional 45 minutes, the reaction was quenched with 0.32ml 1·1 THF/H₂O, 0.48ml 13% NaOH, and finally 51μl H₂O. The reaction was diluted with EtOAc and saturated NaHCO₃, and the layers separated. The organic layer was extracted with brine, dried over sodium sulfate, and evaporated *in vacuo*. The residue was chromatographed on silica gel eluting with 9 1 0 1 CH₂Cl₂/MeOH/NH₄OH to give the subtitled product (148mg, 46%). MS (ES+) 390

45 B. Preparation of 9-benzyl-4-(2-methanesulfonamido)ethyloxy-2-methoxycarbazole-5-carboxamide

[0154] To 107mg (0.27mmol) of the product from Part A in Ilml THF at 0°C was added triethylamine (38µl.0.27mmol) and methanesulfonylchloride (21µl, 0.27mmol). After 40 minutes at 0°C, the reaction was diluted with EtOAc and saturated NaHCO₃, and the layers separated. The organic layer was extracted with brine, dried over sodium sulfate, and evaporated *in vacuo*. The residue was chromatographed on silica gel eluting with 10:1 CH₂Cl₂/acetone and crystallized from EtOAc/hexane to give the titled product (28.6mg, 22%). MS (ES+) 468

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Elemental Analyses for C ₂₄ H ₂₅ N ₃ O ₅ S:			
Calculated	C 61 66,	H 5.39;	N 8 99
Found	C 61 52.	H 5 31;	N 8 81

Example 14

Preparation of 9-benzyl-4-(2-trifluoromethanesulfonamido)ethyloxy-2-methoxycarbazole-5-carboxamide

[0155] To 31.2mg (0 08mmol) of the product from Example 13. Part A in 3.2ml THF at 0°C was added triethylamine (11 1μl, 0 08mmol) and trifluoromethanesulfonylchloride (8 5μl, 0.08mmol). After 40 min at 0°C the reaction was diluted EtOAc and saturated NaHCO₃, and the layers separated. The organic layer was extracted with brine, died over sodium sulfate, and evaporated in vacuo. The residue was chromatographed on silica gel eluting with a CH₂Cl₂/EtOAc gradient and triturated with either to give the titled product (19 3mg, 46%). MS (ES+) 522

Elemental Analyses for C ₂₄ H ₂₂ F ₃ N ₃ O ₅ S			
Calculated	C 55 27.	H 4 25.	N 8 06
Found	C 55 11:	H 4 40.	N 7 99

Example 15

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Preparation of 9-benzyl-5-methanesulfonamidoylmethyloxy-7-methoxy-1.2 3.4-tetrahydrocarbazole-4-carboxamide

[0156] To 51 mg (0 125mmol) of (9-benzyl-4-carbamoyl-7-methoxy-1 2.3 4-tetrahydrocarbazol-5-yl)oxyacetic acid in 25ml THF was added carbonyldiimidazole (20 2mg, 0.125mmol). The reaction was refluxed for 21 hours, then allowed to cool to room temperature. To this was added a mixture of methanesulfonamide (11.9mg, 0 125mmol) and diazabicycloundecene (18 7µl, 0.125mmol) in 2 5ml THF. After 3.5 hours, the reaction was diluted with EtOAc and extracted with 10% NaHSO₃, saturated NaHCO₃, 10% NaHSO₃, and brine, respectively. The organic layer was dried with sodium sulfate and evaporated *in vacuo*. The residue was chromatographed on silica gel eluting with a CH₂Cl₂/EtOH gradient to give the titled product (6mg, 10%).

High Resolution MS for C ₂₄ H ₂₇ N ₃ O ₆ S		
Calculated	485 1621	
Found	485.1625	

Example 16

Preparation of 9-benzyl-4-methanesulfonamidoylmethyloxy-carbazole-5-carboxamide

[0157] To 48mg (0 13mmol) of (9-benzyl-5-carbamoyl-carbazol-4-yl)oxyacetic acid in 26ml THF was added carbonyldiimidazole (21mg. 0 13mmol). The reaction was refluxed for 25 hours, then allowed to cool to room temperature. To this was added a mixture of methanesullonamide (12mg. 0 13mmol) and diazabicycloundecene (19µl 0 13mmol) in 2.6ml THF. After 3 hours, the reaction was diluted with EtOAc and extracted with 10% NaHSO₃, then brine. The organic layer was dried with sodium sulfate and evaporated *in vacuo*. The residue was chromatographed on silica gel eluting with a CH₂Cl₂/EtOH gradient to give impure product. Extraction from EtOAc into saturated NaHCO₃ and reacidification gave the titled product (3.9mg. 6.7%)

High Resolution MS for C ₂₃ H ₂₁ N ₃ O ₅ S		
Calculated	452 1280	
Found	452.1284	

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Example 17

[5-carbamoyl-2-pentyl-9-(phenylmethyl)carbazol-4-yl]oxyacetic acid

[0158]

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ONH₂ OH

A. Preparation of a mixture of 5-pentylcyclohexa-1.3-dione and its enol isomer

[0159]

OC5H11 HO C4H11

[0160] Sodium hydroxide (1 98 g. 49 5 mmol) was added to a stirred suspension of olivetol (7.20 g. 39 9 mmol) in THF (20 mL)/H₂O (20 mL) at ambient temperature under nitrogen atmosphere. The solution was stirred until it became a clear solution. Stir bar was removed before 5% Rh/Al₂O₃ (500 mg) was added to the solution. The mixture was then subject to hydrogenation condition under a 60 pounds per square inch hydrogen atmosphere in a Parr shaker for 17 hours. After filtration through celite, the filtrate was cooled to 0 °C, then treated with 5 N HCl (10.9 mL). The mixture was evaporated in *vacuo* at 40 °C and the residue was chromatographed on silica (gradient 40-100% ethyl acetate in hexane, then 0-15% methanol in ethyl acetate) to give sub-titled compound (4.80 g. 66%) as a white solid mixture of keto/enol isomers in a 3 2 ratio mp 68 5-69 5 °C. IR (KBr) 3200-2400 (br). 1610, 1542 cm⁻¹. ¹H NMR (CDCl₃) δ 0 88 (br t, J= 6 6 Hz. 3H. -CH₃). 3 38 (s. 2H. -CH₂- of keto isomer). 4 13 (s. 1H, =CH- of enol isomer), 8 90 (br s. 1H, -OH). ESIMS m/e 183 (M*+1):

Elemental Analyses for C ₁₁ H ₁₈ O ₂			
Calculated	C. 72 49.	H 9 95	
Found	C, 72 72.	H 9 95	

B. Preparation of a mixture of 5-(hydroxymethyl)clohexa-1 3-dione and its enol isomer

[0161]

CH,OH HO CH,OI

Following the experimental procedur—as described in part A, above synthesis—I subtitled compound was obtained in a 75% yield. IR (KBr) 3547, 3453 (br), 1633–1580 cm $^{-1}$ H NMR (DMSO-d₆) δ 1 90-2 30 (m. 5H), 3 30 (br s. 2H -CH₂O-), 4 61 (br s. 1H -OH), 5.13 (s. 1H), 10 94 (s. 1H, -OH), ESIMS m/e 143 (M*+1),

Elemental Analyses for C ₇ H ₁₀ O ₃		
Calculated	C, 59 14.	H 7 09
Found	C 59 44.	H. 7 08

C Preparation of 3-(2-bromo-3-carbomethoxyanilino)-5-pentylcyclohex-2-en-1-one

[0162]

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[0163] A stirred mixture of methyl-3-amino-2-bromobenzoate prepared as described in Preparation 4 (5 12 g. 22 3 mmol) and the compound of Part A (4 06 g. 22 3 mmol) was heated in an oil bath at 150 °C for 1 4 hours under a positive nitrogen pressure to continuously remove the water vapor. At ambient temperature, the mixture was chromatographed on silica (gradient 30-100% ethyl acetate in hexane) to provide subtitled compound (6 06 g. 69%) as a white solid mp 132 0-134 0 °C. IR (KBr) 3220 (br). 1726. 1580 cm⁻¹ ¹H NMR (CDCl₃) & 0.90 (br. t. J= 6.6 Hz. 3H. -CH₃). 1.25-1.45 (m, 8H). 2.05-2.27 (m. 2H). 2.35-2.57 (m. 3H). 3.94 (s. 3H. -OCH₃). 5.57 (s. 1H. =CH₂). 6.44 (br.s. 1H. -NH). 7.35 (t. J= 6.8 Hz. 1H). 7.53 (d. J= 6.8 Hz. 2H). ESIMS m/e 394 (M++1.79Br). 396(M++1.81Br).

D Preparation of 5-carbornethoxy-1.2-dihydro-2-pentyl-9H-carbazol-4(3H)-one

[0164]

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[0165] Triethylamine (2 09 mL. 15 0 mmol) was added to a stirred suspension of the compound of part C above (3 94 g, 10 0 mmol), Pd(OAC)₂ (338 mg, 1 50 mmol), and tri-o-tolylphosphine (914 mg, 3 00 mmol) in acetonitrile (40 mL) at ambient temperature under nitrogen atmosphere. The resultant mixture was then heated in an oil bath at 85 °C for 1 h. The mixture was evaporated *in vacuo* at 35 °C and the residue was chromatographed on silica (gradient 20-100% ethyl acetate in hexane) to give subtitled compound (2 45 g, 78%) as a white solid mp. 116 0-117 5 °C. IR (KBr) 3379 (br), 3180 (Br), 1725, 1627 cm⁻¹, ¹HNMR (CDCl₃) & 0.89 (br.t., *J*= 6.6 Hz, 3H, -CH₃), 1.20-1.47 (m, 8H), 2.20-2.32 (m, 2H), 2.50-2.67 (m, 2H), 2.92-3.05 (m, 1H), 4.02 (s. 3H, -OCH₃), 7.18-7.26 (m, 1H), 7.35-7.43 (m, 2H), 9.20-9.42 (br.s., 1H, -NH), ESIMS *m/e* 314 (M*+1).

Elemental A	Elemental Analyses for C ₁₉ H ₂₃ NO ₃			
Calculated	C. 72 82	H. 7.40	N 4 47	
Found	C. 72 59.	H. 7 43;	N. 4 51	

E. Preparation of 5-carbomethoxy-1,2-dihydro-2-pentyl-9-(phenylmethyl)carbazol-4(3H)-one

[0166]

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OME OC5H1

[0167] Benzylbromide (1 25 mL 10 5 mmol) was added to a stirred suspension of the compound of example 17D (3.00 g 9 57 mmol) and potassium carbonate (1 98 g, 14 4 mmol) in anhydrous DMF (30 mL) under nitrogen atmosphere. The resultant mixture was stirred for 5 hours. The mixture was evaporated *in vacuo* at 40 °C and the residue was chromatographed on silica (gradient 10-60% ethyl acetate in hexane) to give subtitled compound (3 28 g, 85%) as a white solid mp 119 0-120 5 °C. IR (KBr) 1723. 1650 cm⁻¹. ¹H NMR (CDCl₃) & 0.87 (br t, J = 6.6 Hz 3H, -CH₃). 1.23-1 52 (m. 8H), 2 25-2 40 (m, 2H). 2.47-2 57 (m, 1H). 2.69 (d. J=12 8 Hz. 1H), 2.99 (dd, J= 16 6. 3.6 Hz 1H), 4.05 (s. 3H,-OCH3). 5 36 (s. 2H), 6.98-7.02 (m. 2H), 7 20-7 40 (m. 6H). ESIMS m/e 404 (M*+1).

F. Preparation of 5-carbomethoxy-4-hydroxy-2-pentyl-9-(phenylmethyl)carbazole

[0168]

OME OH C₅H

(a) from DDQ oxidation: DDQ (563 mg, 2.48 mmol) was added to a stirred suspension of the compound of part E. above (1.00 g, 2.48 mmol) in anhydrous toluene (30 mL) under nitrogen atmosphere. The resultant mixture was heated to reflux for 25 min. At ambient temperature, the mixture was subject to chromatographic purification on silica (gradient 0-30% ethyl acetate in toluene) to give subtitled compound (290 mg, 29%) as a yellow solid (310 mg, 31%).

(b) from benzenesulfinate elimination. Sodium hydride (60% in oil. 192 mg. 4 80 mmol) was added to a stirred solution of the compound of part E, above (807 mg, 2 00 mmol) and methyl benzenesulfinate (375 mg, 2 40 mmol) in anhydrous 1,4-dioxane (10 mL) under nitrogen atmosphere. The mixture was heated in an oil bath at 50 °C for 2h 15 min. After dilution with additional 15 mL 1,4-dioxane, the mixture was treated with acetic acid (0.343 mL. 6.00 mmol) and the resultant suspension was heated to reflux for 40 min. The mixture was evaporated *in vacuo* and the residue was chromatographed on silica (gradient 0-5% ethyl acetate in toluene) to afford subtitled compund (690 mg, 86%) as a yellow solid. mp. 130.0-132.0 °C: IR (KBr) 3200 (br). 1686 cm⁻¹, ¹H NMR (CDCl₃) δ 0.97 (br t, J= 6 6 Hz, 3H, -CH₃). 1 25-1.38 (m, 4H), 1.60-1.75 (m, 2H), 2 69 (t. J= 7.7 Hz, 2H), 4.10 (s, 3H, -OCH₃), 5.52 (s. 2H), 6.71 (s. 1H), 6.76 (s, 1H), 7.09-7.11 (m, 2H), 7.20-7.30 (m, 3H), 7.37 (t, J= 8.0 Hz, 1H), 7.55 (d, J= 8.0 Hz, 1H), 10.43 (s. 1H, -OH). ESIMS *m/e* 402 (M⁺+1).

Elemental Analyses for C ₂₆ H ₂₇ NO ₃ •0 2(C ₇ H ₈)				
Calculated	C 78 37:	H, 6 86 ⁻	N. 3 34	
Found	C. 78 48.	H, 6 68.	N, 3.53	

G Preparation of 5-carbamoyl-4-hydroxy-2-pentyl-9-(phenylmethyl)carbazole

[0169]

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ONH₂ OH

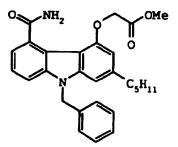
C₅H₁₁

[0170] Ammonia was bubbled through a stirred suspension of the compund of part F above (590 mg. 1.47 mmol) in ammonia water (50 mL)/THF (10 mL) at -25 °C for 5 minutes in a pressure bottle. The bottle was screw-capped before the mixture was allowed to stir at ambient temperature for 3 days. After cooling to -25 °C, the screw cap was removed and the mixture was allowed to stir at ambient temperature for 10 minutes. After concentration, the residue was subject to chromatographic purification on silica (gradient 0-40% tetrahydrofuran in toluene) to recover the compound of part F (160 mg. 27%) and obtain the desired subtitled product (397 mg. 70%) as a yellowish solid. IR (KBr) 3437. 3200 (br). 1633, 1601 cm⁻¹. ¹HNMR (CDCl₃) & 0.86 (br t. J = 6.6 Hz. 3H. -CH₃). 1 22-1 38 (m. 4H); 1 60-1 75 (m. 2H). 2 69 (t, J = 7.7 Hz. 2H). 5 52 (s. 2H). 6 16 (s. 1H. -NH), 6 53 (s. 1H. -NH). 6.72 (s. 1H), 6.76 (s. 1H), 7 07-7.11 (m. 2H) 7 23-7 30 (m. 3H). 7.35 (t, J = 7.7 Hz. 1H). 7 43 (d. J = 7.7 Hz. 1H). 7 48 (d. J = 7.7 Hz. 1H) 9 80 (s. 1H. -OH). ESIMS m/e 387 (M⁺+1).

Elemental Analyses for C ₂₅ H ₂₆ N ₂ O ₂			
Calculated .	C. 77 69:	H. 6 78:	N, 7 25
Found	C 77 69.	H 6 63:	N 7 15.

H Preparation of [5-carbamoyl-2-pentyl-9-(phenylmethyl)carbazol-4-yl]oxyacetic acid. methyl ester

[0171]



[0172] Methyl bromoacetate (48 0 mg. 0.314 mm. I) was added to a stirred suspension of the compound of example 17G, above (110 mg. 0.285 mmol) and c. sium carbonate (186 mg. 0.570 mmol) in anhydrous DMF (2 mL) at ambient

temp rature under nitrogen atmosphere. The resultant mixture was stirred for 1 hour. After concentration in vacuo at 40 °C, the residue was chromatographed on silica (gradient 10-60% tetrahydroluran in toluene) to give subtitled product (115 mg. 88%) as a white solid mp 195 0-196 0 °C; IR (KBr) 3365 (br), 3157 (br), 1758, 1640 cm⁻¹, ¹H NMR (CDCl₃) δ 0.87 (br.t. J= 6.6 Hz, 3H, -CH₃), 1 22-1 35 (m. 4H), 1 58-1 70 (m. 2H), 2 69 (t. J= 7 6 Hz, 2H), 3 84 (s, 3H, -OCH₃), 4 89 (s, 2H, -OCH₂-), 5 50 (s, 2H, -NCH₂-), 5 95 (br.s. 1H, -NH), 6 08 (br.s. 1H, -NH), 6 41 (s, 1H), 6 85 (s. 1H) 7.07-7 11 (m. 2H), 7.23-7.40 (m. 6H); ESIMS m/e 459 (M*+1);

Elemental Analyses for C ₂₈ H ₃₀ N ₂ O ₄ ·			
Calculated	C, 73 34.	H 6.59:	N. 6 11
Found	C, 73 56.	H, 6 43:	N. 6 25

I Preparation of [5-carbamoyl-2-pentyl-9-(phenylmethyl)carbazol-4-yl]oxyacetic acid

[0173]

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ONH₂ OOH OC₅H₁₁

[0174] Lithium hydroxide (4 17 N, 56 3 mL, 0 360 mmol) was added to a stirred suspension of the compound of Example 17H, above (110 mg, 0 240 mmol) in THF (2 mL)/CH₃OH (0.3 mL)/H₂O (0.3 mL). The resultant mixture was stirred in an oil bath at 55 °C for 30 minutes to form a white suspension. Five milliliter of THF was added to the suspension before it was treated with 5 N HCI (96 0 mL, 0 480 mmol) to become a clear solution. After concentration, the white solid was resuspended in THF (0.5 mL)/H₂O (5 mL), sonicated, filtered, and dried to give the subtitled compound (106 mg, 99%) as a white solid IR (KBr) 3458 (br), 3500-3100 (br), 1656, 1620 cm⁻¹ ¹H NMR (DMSO-d_e) δ 0.80 (br t. J= 6.6 Hz (3H, -CH₃), 1.18-1 30 (m, 4H), 1.50-1.62 (m, 2H), 2.61 (br t, J= 7.3 Hz, 2H), 4.55 (s, 2H, -OCH₂-), 5.60 (s, 2H, -NCH₂-), 6.40 (s, 1H), 6.95-7 32 (m, 9H), 7.51 (d, J= 8.0 Hz, 1H), 7.70 (br s, 1H, -NH); ESIMS m/e 445 (M++1)

Example 18

[5-carbamoyl-2-(1-methylethyl)-9-(phenylmethyl)carbazol-4-yl]oxyacetic acid

[0175]

50 ONH₂ OH

A. Preparation of 3-(2-bromo-3-carbomethoxyanilino)-5-((1-methyl)ethyl]cyclohex-2-en-1-one

[0176]

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O OMe Br N

15 [0177] Prepared in 70% yield by the method of Example 17 part C. mp 129.0-130 0 °C: ¹H NMR (CDCl₃) δ 0 98 (t. J=5 5 Hz 6H), 1 66 (m, 1H), 2 00 (m, 1H), 2.14 (t, J = 14.8 Hz, 1H), 2 46 (m, 3H), 4 00 (s 3H), 5.57 (s, 1H), 6 40 (br s. 1H), 7 35 (t. J = 7 9 Hz 1H) 7 35 (d. J= 7 8 Hz, 2H); ESIMS m/e 366 (M*+1. ⁷⁹Br), 368 (M*+1, ⁸¹Br)

B Preparation of 5-carbomethoxy-1,2-dihydro-2-(1-methylethyl)-9H-carbazol-4(3H)-one

[0178]

OMe N H

[0179] Prepared in 65% yield by the procedure of Example 17D. mp 175.0-177.0 °C; ¹H NMR (CDCl₃) δ 0 95 (t. J=6.7 Hz. 6H), 1 62 (m, 1H), 2.05 (m. 1H), 2 27 (dd, J= 16.1 12.6 Hz, 1H), 2.60 (m, 2H), 2.89 (dd, J=16.4 4.3 Hz. 1H), 4 02 (s, 3H), 7 23 (m, 1H), 7 36 (m, 2H) 9 28 (br s. IH); ESIMS m/e 286 (M*+1).

Elemental Analyses for C ₁₇ H ₁₉ NO ₃ :			
Calculated	C,71.56;	H,6.71;	N.4.91.
	C, 71.43:		N, 4.74.

C Preparation of 5-carbomethoxy-1.2-dihydro-2-(1-methylethyl)-9-(phenylmethyl)carbazol-4(3H)-one

[0180]

OMe N

[0181] Prepared in 37% yield by the method of Example 17E. mp: 155.0-156.0 °C; ¹H NMR (CDCl₃) δ 1.28 (d, J=

8 0 Hz, 6H). 3.00 (m. 1H). 4 10 (s, 3H), 5 23 (s. 2H), 6 78 (d, J=9.5 Hz, 2H), 7 11 (m. 2H) 7 29 (m, 3H). 7 37 (t. J=7.9 Hz, 1H) 7 54 (d, J=7.9 Hz, 1H), 7 98 (d, J=7.9 Hz, 1H), 10 46 (s. 1H). ESIMS m/e 374 (M*+1)

Elemental Analyses for C ₂₄ H ₂₃ NO ₃			
Calculated	C. 77 19:	H, 6 21.	N, 3 75
Found	C 76 96;	H, 6.33.	N, 3 77

D Preparation of 5-carbomethoxy-4-hydroxy-2-(1-methylethyl)-9-(phenylmethyl)carbazole

[0182]

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OMe OH

[0183] DDQ (1 15 g, 5.07 mmol) was added to a stirred suspension of the compound of Example 18C (1.90 g, 5.07 mmol) in anhydrous toluene (30 mL) under argon atmosphere. The resultant mixture was heated under reflux for 25 mm. After cooling to room temperature, the mixture was subjected to chromatography on silica gel eluting with a gradient of hexanes/toluene(1 1) to toluene/EtOAc (97:3). The desired product was obtained a mixture with the corresponding isopropylidene compound. The mixture was dissolved in EtOAc (30 mL) under nitrogen atmosphere, and 0.1 g of PtO₂ was added. The mixture was stirred at room temperature under hydrogen at balloon pressure for 25 min Filtration through celite. followed by recrystallization from Et2O/hexanes gave the sublittled compound as a pale yellow crystalline solid (0 705 g; 37% yield). mp: 155 0-156 0 °C. ¹H NMR (CDCl₃) 8 1 28 (d, J= 8 0 Hz, 6H), 3 00 (m. 1H). 4.10 (s. 3H), 5 23 (s. 2H), 6.78 (d, J= 9.5 Hz, 2H), 7 11 (m, 2H), 7.28 (m, 3H), 7 37 (t, J= 7 9 Hz, 1H), 7 54 (d J= 8 0 Hz, 1H), 7 98 (d. J= 7 9 Hz, 1H), 10 46 (s, 1H). ESIMS m/e 374 (M*+1);

Elemental Analyses for C₂₄H₂₃NO₃ Calculated C, 77.19, H, 6 21; N, 3.75 Found C, 76.96, H, 6 33; N, 3.77

E Preparation of 5-carbamoyl-4-hydroxy-2-(1-methylethyl)-9-(phenylmethyl)carbazole

[0184]

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OH OH

[0185] Prepared in 50% yield by the procedure of example 17G mp 216 0-218 0 °C 1 H NMR (CDCl₃) δ 1.29 (d, J = 6 9, 6H), 3.00 (m, 1H), 5.53(s, 2H), 6.16 (br s, 1H), 6.52 (br s, 1H), 6.78 (d. J= 8.6 Hz, 2H), 7.11 (m, 2H), 7 28 (m.

3H). 7 32 (m. 1H) 7 4 (m. 2H). 9.8 (br s. 1H) ESIMS m/e 359 3 (M++1).

Elemental Analyses for C ₂₅ H ₂₂ N ₂ O ₂				
Calculated	C. 77 07;	H, 6 19.	N. 7 82	
Found	C. 77.10;	H, 6 35:	N 774	

F. Preparation of [5-carbamoyl-2-(1-methylethyl)-9-(phenylmethyl)carbazol-4-yl]oxyacetic acid. methyl ester

10 [0186]

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ONH₂ OMe

[0187] Prepared by the procedure of example 17H in 54% yield. mp 189 0-191 0 °C. ¹H NMR (CDCl₃) δ 1 27 (d. J = 6 9 Hz. 6H), 2 98 (m. 1H), 3.84 (s. 3H), 4 90 (s. 2H), 5 51(s, 2H), 5 8-6 2 (m. 2H), 6.47 (s. 1H), 6.90 (s. 1H), 7 11 (m. 2H), 7 2-7 4 (m. 6H). ESIMS m/e 431 (M++1).

Elemental Analyses for C ₂₆ H ₂₆ N ₂ O ₄ ·				
Calculated	C, 72.54;	H. 6 09.	N. 6 51	
Found	C. 72 58:	H, 6 24:	N. 6.43	

G Preparation of (5-carbamoyl-2-(1-methylethyl)-9-(phenylmethyl)carbazol-4-yl]oxyacetic acid

₃₅ [0188]

ONH₂ OH

[0189] Prepared by the procedure of example Example 17I in 82% yield. ¹H NMR (CDCl₃) δ 1 20 (d. *J*= 6.7, 6H). 2 94 (m 1H), 4 79 (s, 2H), 5 63 (s, 2H), 6 49(s, 1H), 7 00-7.40 (m, 9H), 7.51 (m, 1H), 7 70 (br s. 1H), 12.94 (br s. 1H). ESIMS *m/e* 417 (M*+1).

Elemental A	Elemental Analyses for C ₂₅ H ₂₄ N ₂ O _{4:}			
Calculated	C. 72.10;	H, 5.81,	N, 6.73.	
Found	C, 72 11:	H. 5.62;	N, 6.49.	

Example 19

[5-carbamoyl-9-(phenylmethyl)-2-[(tri(-1-methylethyl)silyl)oxymethyl]carbazol-4-yl]oxyacetic acid

[0190]

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A Preparation of 3-(2-bromo-3-carbomethoxyanilino)-5-(hydroxymethyl)cyclohex-2-en-1-one

[0191]

[0192] Following the experimental procedure as described in the synthesis of Example 17 part C subtitled compound was obtained as a white solid in a 68% yield IR (KBr) 3407 (br), 3364 (br), 3222 (br). 1738. 1600. 1566 cm⁻¹. 1 H NMR (DMSO-d₆) 3 1.94 (dd. J = 16.5, 12.5 Hz, 1H). 2.02-2.15 (m. 2H), 2.32 (dd, J = 16.5, 9.9 Hz. 1H). 2.50-2.58 (m, 1H), 3.27-3.42 (m. 2H), 3.83 (s. 3H, -OCH₃). 4.55 (s. 1H, =CH-), 4.64 (t, J= 5.1 Hz. 1H. -OH), 7.42-7.58 (m, 3H). 8.76 (s. 1H. -NH). ESIMS m/e 354 (M*+1, 79 Br), 356(M*+1, 81 Br);

Elemental Analyses for C ₁₅ H ₁₆ BrNO ₄ :				
Calculated	C. 50 87.	H. 4.55.	N. 3 95	
Found	C, 51 07:	H. 4.60.	N. 3 93	

B Preparation of 5-carbomethoxy-1,2-dihydro-2-(hydroxymethyl)-9H-carbazol-4(3H)-one

[0193]

[0194] Following the xperimental procedure as described in the synthesis I Example 17D, subtitled compound

was obtained as a whit solid in a 66% yield IR (KBr) 3350 (br) 1720 1624 cm $^{-1}$ H NMR (CDCl $_3$) δ 1 92-2 20 (m. 2H). 2 33 (dd. J = 16 0. 3 0 Hz. 1H). 2 44 (dd. J = 16 8, 9 9 Hz. 1H), 2 67 (dd. J = 16 8, 4 0 Hz. 1H). 3 33-3 48 (m. 2H), 4 05 (s. 3H -OCH $_3$) 7 20-7 26 (m. 1H). 7 33 (d, J= 7 3 Hz 1H), 7 43 (d, J= 7 9 Hz, 1H), 10 25 (s. 1H. -NH). ESIMS m/e 274 (M*+1)

Elemental Analyses for C ₁₅ H ₁₅ NO ₄				
Calculated	C. 65.93;	H, 5 53:	N, 5 13	
Found	C, 65 68:	H, 5.78.	N. 5 08	

C Preparation of 5-carbomethoxy-1,2-dihydro-2-(hydroxymethyl)-9-(phenylmethyl)carbazol-4(3H)-one

[0195]

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OMe CH₂OH

[0196] Following the experimental procedure as described in the synthesis of Example 17E. the subtitled compound was obtained as a white solid in a 88% yield IR (KBr) 3366 (br), 1728. 1632 cm⁻¹. ¹H NMR (CDCl₃) δ 1 98 (s. 1H. -OH) 2 30-2 62 (m 3H). 2 72 (dd J = 16 8, 9.7 Hz. 1H), 3 06 (dd J = 17 0, 3.6 Hz. 1H). 3 58-3.75 (m. 2H), 4 04 (s. 3H, -OCH₃). 5 25-5 40 (m. 2H, -NCH₂-). 6 98-7.05 (m. 2H). 7.20-7 40 (m, 6H); ESIMS m/e 364 (M++1)

D Preparation of [5-carbamoyl-9-(phenylmethyl)-2-[(tri(-1-methylethyl)silyl)oxymethyl carbazol-4-yl]oxyacetic acid methyl ester

35 [0197]

OME OCH₂OH

[0198] etrabutylammonium fluoride (1 N in THF 0 626 mL) was added to a stirred solution of the compound of Example 23D (300 mg. 0 522 mmol) in THF (5 mL). The mixture was stirred at ambient temperature for 1 hour. After conentration in vacuo at 35 °C the residue was subject to chromatographic purification (gradient 50-100% tetrahydrofuran in toluene, then 5% methanol in tetrahydrofuran) to give subtitled compound (122 mg. 56%) as a white solid IR (KBr) 3380 (br). 3205 (br). 1733. 1641. 1628 cm⁻¹. ¹H NMR (DMSO-d₆) & 3.69 (s. 3H, -OCH₃), 4 55 (s. 2H, -OCH₂-). 4 86 (s. 2H, -OCH₂-). 5 22 (br s. 1H, -OH), 5.62 (s. 2H, -NCH₂-). 6 53 (s. 1H), 7.00-7 25 (m, 8H), 7 32 (br t. *J*= 7 7 Hz. 1H), 7.50 (br d. *J*= 7 7 Hz. 1H), 7 53 (br d, *J*= 7 7 Hz. 1H). ESIMS *mie* 419 (M*+1).

Elemental Analyses for C ₂₄ H ₂₂ N ₂ O ₅				
Calculated	C. 68 89.	H, 5.30:	N, 6 69.	
Found	C, 68.80.	H, 5.17.	N, 6.72	

E Preparation of [5-carbamoyl-9-(phenylmethyl)-2-((tri(-l-methylethyl)silyl)oxymethyl]carbazol-4-yl]oxyacetic acid

[0199]

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ONH₂ OH CH₂OH

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[0200] Following the experimental procedure as described in the synthesis of Example 17I, subtituled compound was obtained as a white solid in a 99% yield. IR (KBr) 3427, 3331 (br), 1732, 1682, 1636 cm⁻¹, ¹HNMR (DMSO-d₆) δ 4 55 (d, J= 4 6 Hz, 2H, -OCH₂OH), 4.78 (s, 2H, -OCH₂·), 5 25 (br t. J= 4.6 Hz, 1H, -OH), 5.62 (s, 2H, -NCH₂·), 6.57 (s 1H), 7.00-7,25 (m 7H), 7.33 (br t, J= 7.8 Hz. 1H), 7.39 (s, 1H, -NH), 7 55 (d, J= 7.8 Hz, 1H), 7 72 (s, 1H, -NH), 12 93 (s, 1H, -CO₂H). ESIMS m/e 405 (M⁺+1):

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Elemental Analyses for C ₂₃ H ₂₀ N ₂ O ₅ •0.3H ₂ O					
Calculated C, 67.41. H, 5 07; N. 6 84					
Found	C. 67 34,	H, 5 13:	N, 6 98		

Example 20

Preparation of [5-carbamoyl-2-phenyl-9-(phenylmethyl)carbazol-4-yl]oxyacetic acid

[0201]

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NH₂ OH

A Preparation of 3-(2-bromo-3-carbomethoxyanilino)-5-phenylcycloh x-2-en-1-one

[0202]

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OMe Br N H

[0203] Prepared in 61% yield by the method of Example 17, part A. IR (KBr) 3180 (br) 1734, 1592 cm⁻¹, ¹H NMR (CDCl₃) δ 2 64-2 71 (m. 2H) 2.84 (dd. J = 11 7 16 2 Hz, 1H), 3 45-3 49 (m, 1H), 3 95 (s. 3H) 5 67 (s. 1H), 6 29 (br s. 1H), 7 29-7 40 (m 6H), 7 54-7 59 (m. 2H), ESIMS m/e 400 (M*+1, ⁷9Br), 402 (M*+1, ⁶1Br).

Elemental Analyses for C ₂₀ H ₁₈ BrNO ₃				
Calculated	C, 60 01.	H, 4 53:	N, 3.50	
Found	C, 60.23;	H. 480,	N. 3.47	

B. Preparation of 5-carbomethoxy-1 2-dihydro-2-phenyl-9H-carbazol-4(3H)-one

[0204]

OMe N H

[0205] Prepared by the method of Example 17D in 70% yield. IR (KBr) 3180, 1736 1628 cm⁻¹: ¹H NMR (CDCl₃) δ 2.70 (d J=4 Hz. 1H) 2.72 (s, 1H). 2.97-3.03 (m 2H). 4.03 (s, 3H) 7.18-7.39 (m, 8H). 9.52 (br s. 1H) ESIMS m/e 320 (M*+1)

C. Preparation of 5-carbomethoxy-1.2-dihydro-2-phenyl-9-(phenylmethyl)carbazol-4(3H)-one

[0206]

OMe I

[0207] Prepared in 85% yield by the method of Example 17E IR (KBr) 1723, 1652 cmr1; ESIMS m/e 410 (M*+1)

D Preparation 15-carbomethoxy-4-hydroxy-2-phenyl-9-(phenylmethyl)carbazole

[0208]

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OME OH

[0209] Prepared in 50% yield by the method (a) of Example 17F IR (KBr) 3326, 1711 cm⁻¹; ¹H NMR (CDCl₃) δ 4 10 (s, 3H), 5.52 (s, 2H), 7 08-7 10 (m, 4H), 7.24-7 56 (m, 7H), 7 38 (d, J= 8.1 Hz, 1H), 7 55 (d, J= 8.0 Hz, 2H), 7 97 (d, J= 8.1 Hz, 1H) 10 43 (br s, 1H); ESIMS m/e 408 (M⁺+1);

Elemental Analyses for C₂₇H₂₁NO₃•0.1 C₇H₈:

Calculated C. 79 85 H, 5.27; N. 3 36.

Found C. 80 19 H, 5 32: N. 3.49.

E. Preparation of 5-carbamoyl-4-hydroxy-2-phenyl-9-(phenylmethyl)carbazole

[0210]

OH OH

[0211] Prepared in 40% yield by the method of Example 17G 1 H NMR (CDCl₃) δ 5 58 (s, 2H), 6.25 (s, 1H), 6 59 (s, 1H), 7 11-7.16 (m, 4H), 7.26-7 48 (m, 8H), 7 52 (d, J= 8.1 Hz, 1H), 7 68 (d. J= 7.2 Hz 2H), 9 99 (br s, 1H): ESIMS m/e 393 (M*+1).

F Preparation 1 [5-carbamoyl-2-phenyl-9-(phenylmethyl)carbazol-4-yl]oxyacetic acid. methyl st r

[0212]

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ONH₂ OMe

[0213] Prepared in 58% yield by the method of Example 17H IR (KBr) 3359. 1755. 1634 cm⁻¹ ¹H NMR (CDCI₃) δ 3 85 (s. 3H) 4.96 (s. 2H), 5 58 (s. 2H), 5 92 (br s. 2H) 7 11 (s, 1H). 7 13-7 24 (m. 2H). 7 26-7 30 (m, 3H), 7 34-7 47 (m, 7H). 7 59 (d, J= 7.3 Hz. 2H); ESIMS m/e 465 (M⁺+1).

Elemental Analyses for C ₂₉ H ₂₄ N ₂ O ₄ .				
Calculated	C 74.98.	H. 5 21.	N. 6.03	
	C 74.97.			

G Preparation of [5-carbamoyl-2-phenyl-9-iphenylmethyl)carbazol-4-yl]oxyacetic acid

[0214]

ONH₂ OH

[0215] Prepared in 86% yield by the method of Example 17I IR (KBr) 3426. 3332, 2625-2100 (br), 1734, 1636 cm⁻¹; 1 H NMR (DMSO-d₆) $^{\delta}$ 4 94 (s. 2H), 5 57 (s. 2H), 6.96 (s. 1H), 7 06-7.31 (m. 6H), 7 33-7.47 (m. 5H), 7 55-7.60 (m. 2H), 7 71-7 73 (m. 3H). 12 94 (br s. IH). ESIMS m/e 451 (M*+1).

Elemental Analyses for C ₂₈ H ₂₂ N ₂ O ₄				
Calculated	C, 74.65,	H 4 92.	N, 6.22.	
	C. 74 87			

Example 21

[5-carbamoyl-2-(4-chlorophenyl)-9-(phenylmethyl)carbazol-4-yl]oxyacetic acid

s [0216]

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ONH₂ OH

A Preparation of 3-(2-bromo-3-carbomethoxyanılino)-5-(4-chlorophenyl)cyclohex-2-en-1-one

[0217]

ONE Br N

[0218] Prepared by the method of Example 17, part C in 80% yield ¹H NMR (CDCl₃) δ 2.66 (m. 3H), 2.86 (m. 1H), 3 44 (m. 1H), 3.95 (s, 3H), 5.75 (s. 1H), 7 24 (m. 3H). 7.32 (m. 3H). 7 57 (t, J= 7 1 Hz. 2H); ESIMS m/e 434 (M++1.⁷⁹Br³⁵Cl) 436 (M++1.⁸¹Br³⁵Cl. ⁷⁹Br³⁷Cl). 438 (M++1.⁸¹Br³⁷Cl).

Elemental Analyses for C ₂₀ H ₁₇ BrCINO ₃				
Calculated	C, 55 26.	H, 3 94.	N, 3 22	
Found	C. 55 55.	H, 3 91:	N. 321	

B. Preparation of 5-carbomethoxy-1,2-dihydro-2-(4-chlorophenyl)-9H-carbazol-4(3H)-one

[0219]

50 OMe

[0220] Prepared by the m thod of Exampl 17D in 64% yield. 1 H NMR (CDCl₃) δ 2.72 (m, 2H). 2 99 (dd, J=16.7, 16.5 Hz 1H) 3 12 (dd J= 16.7, 4.7 Hz, 1H), 3 45 (m. 1H), 4.04 (s. 3H). 7 17 (d. J= 8.5 Hz, 2H), 7.23 (d. J= 7.9 Hz. 1H) 7 30 (d. J= 8.4 Hz, 2H), 7.43 (t, J= 7.9 Hz, 2H), 9.61 (br.s. 1H). ESIMS m/e 354 (M++1, 35 CI). 356 (M++1, 37 CI).

Elemental Analyses for C ₂₀ H ₁₆ CINO ₃ .			
Calculated	C, 67 90:	H. 4 56.	N. 3 96
Found	C, 68.14;	H, 4 51.	N. 3 90

C. Preparation of 5-carbornethoxy-1,2-dihydro-2-(4-chlorophenyl)- 9-(phenylmethyl)carbazol-4(3H)-one

[0221]

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OMe C1

[0222] Prepared by the procedure of Example 17E in 90% yield. 1 H NMR (CDCl₃) $^{\circ}$ 2 79 (d, $^{\downarrow}$ = 3.7 Hz, 1H), 2 82 (s, 1H), 2 97 (dd. $^{\downarrow}$ = 16 7, 11.5 Hz, 1H), 3.19 (dd. $^{\downarrow}$ = 16 7, 4 7 Hz, 1H), 3.59 (m, 1H), 4.06 (s, 3H) 5.35 (s, 2H), 6 96 (t, $^{\downarrow}$ = 3 6 Hz, 2H) 7 21 (m, 2H), 7 30 (m, 6H), 7 36 (t, $^{\downarrow}$ = 7.5 Hz, 2H). ESIMS m/e 444 (M*+1, 35 Cl), 446 (M*+1, 37 Cl).

Elemental Analyses for C ₂₇ H ₂₂ CINO ₃ :				
Calculated	C, 73 05:	H. 5 00;	N, 3 16.	
	ž		N, 3 36.	

D. Preparation of 5-carbomethoxy-2-(4-chlorophenyl)-4-hydroxy-9-(phenylmethyl)carbazole

[0223]

OMe OH C1

[0224] Prepared by method of example 17(b) in 66% yield. 1H NMR (CDCl₃) δ 4.12 (s, 3H), 5.60 (s, 2H). 7 10 (t, J= 4.5 Hz. 4H). 7 32 (m, 3H), 7.41 (m. 3H), 7 60 (d, J= 8 5 Hz. 3H), 8 04 (d, J= 7.2 Hz. 1H)

E Pr paration of 5-carbamoyl-2-(4-chlorophenyl)-4-hydroxy-9-(phenylmethyl)carbazole

[0225]

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[0226] Prepared by the procedure of example Example 17G in 43% yield. ¹H NMR (CDCl₃) δ 5 77 (s. 2H), 6 89 (s, 1H), 7 07 (d. J= 7.0 Hz. 2H), 7 23 (m, 3H), 7 45 (m, 5H), 7 76 (d, J= 8.4 Hz. 3H), 8 40 (s, 1H), 8 85 (s. 1H), ESIMS m/θ 427 (M*+1. ³⁵Cl) 429 (M*+1. ³⁷Cl).

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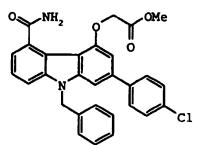
Elemental Analyses for C ₂₆ H ₁₉ CIN ₂ O ₂					
calculated	C, 73 15;	H, 4 49;	N, 6.56		
	C, 72.92,				

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F. Preparation of [5-carbamoyl-2-(4-chlorophenyl)-9-(phenylmethyl)carbazol-4-yl]oxyacetic acid. methyl ester

[0227]

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[0228] Prepared by the procedure of example Example 17H in 79% yield. 1 H NMR (CDCl₃) δ 3.84 (s. 3H), 4 97 (s. 2H), 5 57 (s. 2H), 6 08 (br s. 1H), 6.14 (br s. 1H), 6.74 (s. 1H), 7 12 (m, 2H), 7.18 (s. 1H), 7 22 (m. 2H), 7 41 (m, 6H), 7 51 (d. J= 8 5 Hz. 2H); ESIMS m/e 499 (M⁻+1, 35 Cl), 501 (M⁺+1 37 Cl)

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G Preparation of [5-carbamoyl-2-(4-chlor phenyl)-9-(phenylmethyl)carbaz I-4-yl]oxyacetic acid

[0229]

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ONH₂ OH

[0230] Prepared by the procedure of example Example 17I in 100% yield. ^{1}H NMR (CDCl₃) δ 4 95 (s. 2H), 5.75 (s. 2H), 6 88 (s. 1H), 7 20 (m 4H) 7 52 (m 6H), 7.76 (m. 3H). 12.92 (s. 1H); ESIMS m/e 485 (M++1, ^{35}CI). 487 (M++1, ^{37}CI).

20 Example 22

[5-carbamoyl-2-(2-furyl)-9-(phenylmethyl)carbazol-4-yl]oxyacetic acid

[0231]

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OH OH

A Preparation of 3-(2-bromo-3-carbomethoxyanilino)-5-(2-furyl)cyclohex-2-en-1-one

[0232]

O OMe Br

[0233] Prepared in 55% yield by the method of Example 17. part C. IR (KBr) 3201, 1735, 1593, 1575 cm⁻¹; ¹H NMR (CDCl₃) δ 2.56-2 94 (m, 4H), 3.53-3.60 (m, 1H), 3.94 (s. 1H), 5 60 (s. 1H), 6.11 (d. *J*= 2 8Hz, 1H), 6 22 (br s, 1H), 6.32-6 34 (m, 1H), 7 34-7 39 (m, 1H), 7.37 (br s, 1H), 7.55 (d. *J*= 7.9 Hz, 2H); *m/e* 390 (M*+1, ⁷⁹Br), 392 (M*+1, ⁸¹Br);

Elemental Analyses for C ₁₈ H ₁₆ BrNO ₄				
Calculated	C _. 55 40.	H, 4 13	N, 3.59	
Found	C 55 62.	H, 4 27.	N, 3.71	

B Preparation of 5-carbomethoxy-1.2-dihydro-2-(2-furyl)-9H-carbazol-4(3H)-one

[0234]

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OMe COME

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[0235] Prepared by the method of Example 17D in 47% yield IR (KBr) 1736, 1633 cm⁻¹, ¹H NMR (THF-d₈) δ 2 59-2.77 (m 2H). 3 14 (dd. J = 16.5. 10 5 Hz. 1H), 3 30 (dd, J = 16.5, 10 3 Hz, 1H), 3 56-3 69 (m. 1H), 3 81 (s. 3H), 6 13-6.14 (m. 1H), 6 27-6 29 (d J = 2 5 Hz, 1H), 7 11-7 21 (m, 2H). 7 37-7 39 (m. 1H). 7 39 (s. 1H). 11 03 (br s. 1H). ESIMS m/e 310 iM⁺+1).

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Elemental Analyses for C ₁₈ H ₁₅ NO ₄ •0 1C ₇ H ₈ ·			
Calculated	C, 70 51 ⁻	H 4 50:	N. 4.40
Found	C. 70 75,	H. 4 85.	N. 461

C Preparation of 5-carbomethoxy-1.2-dihydro-2-(2-furyl)-9-(phenylmethyl)carbazol-4(3H)-one [0236]

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OMe i

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[0237] Prepared in 91% yield by the method of Example 17E IR (KBr) 3500 (br), 1722 1650 cm⁻¹, ¹H NMR (CDCl₃) δ 2.79 (dd, J = 16 6, 10 8 Hz, 1H), 2 94 (dd, J = 16 6, 4.2 Hz, 1H), 3 06 (dd, J = 16 6, 9 8 Hz, 1H), 3 31 (dd, J = 18 8, 4.7 Hz, 1H), 3.68-3.74 (m, 1H), 4 06 (s. 3H), 5.37 (s, 2H), 6 08 (d. J= 2.7 Hz, 1H), 6 28 (m. 1H), 6.96 (m, 2H), 7 22-7 40 (m, 7H). ESIMS m/e 400 (M⁻+1),

Elemental Analysis for C₂₅H₂₁NO₄.

Calculated C. 75 17. H 5 30. N. 3 51. F und C. 75 46. H, 5.32. N. 3 67.

D. Preparation of 5-carbomethoxy-2-(2-furyl)-4-hydroxy-9-(phenylmethyl)carbazole

[0238]

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OMe OH

[0239] Prepared in 72% yield by the method (b) of Example 17F. IR (KBr) 3500 (br) 1674 cm^{-1} H NMR (CDCl₃) δ 4 11 (s. 3H). 5 58 (s. 2H). 6 48-6 50 (m. 1H). 6.75 (d. J= 3 2 Hz. 1H). 7 09-7 12 (m. 2H). 7 16 (s. 1H). 7 26-7 30 (m. 4H). 7 36-7 44 (t, J= 8 0 Hz, 1H). 7 48 (s. 1H). 7 56 (d. J= 8 1 Hz. 1H). 8 01 (d. J= 7 5 Hz. 1H). 10 50 (br s. 1H). ESIMS m/e 398 (M*+1)

E Preparation of 5-carbamoyl-2-(2-furyl)-4-hydroxy-9-(phenylmethyl)carbazole

[0240]

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OH OH

[0241] Prepared in 60% yield by the method of Example 17G IR (KBr) 3425 (br), 3325 (br), 1642, 1628 cm⁻¹. ¹HNMR (DMSO-d₆) δ 5 72 (s. 2H), 6 56-6 57 (m. 1H), 6 95 (s. 1H), 6 98 (d. J = 3 0 Hz, 1H), 7 07 (d. J = 7 2 Hz 2H), 7 17-7 26 (m. 3H), 7 42-7 43 (m. 3H), 7 71-7 76 (m. 2H), 8 38 (s. 1H), 8 83 (s. 1H) 10 70 (s. 1H) ESIMS m/e 381 (M--1).

Elemental Analyses for C ₂₄ H ₁₈ N ₂ O ₃				
Calculated	C, 75 38.	H, 4 74	N, 7 33	
Found	C. 75.35.	H. 4 95	N. 7 29	

F. Preparation 1 [5-carbamoyl-2-(2-furyl)-9-(phenylmethyl)carbazol-4-yl]oxyacetic acid, methyl ester

[0242]

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ONH₂ OMe

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[0243] Prepared in 80% yield by the method of Example 17H IR (KBr) 3358. 1756 1643 cm⁻¹ ¹H NMR (DMSO-d₆) δ 3 70 is. 3H), 4.98 (s. 2H), 5.70 (s. 2H), 6.58 (d, J=1.5 Hz. 1H), 6.93 (s. 1H), 7.01-7.30 (m, 8H), 7.35 (t. J= 7.7 Hz. 1H), 7.51-7.57 (m, 3H), 7.72 (s. 1H), ESIMS m/e 455 (M*+1),

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Elemental Analyses for C ₂₇ H ₂₂ N ₂ O ₅				
Calculated	C. 71 36;	H 488,	N, 6 16.	
Found	C, 71 46:	H. 4 91;	N. 6 24	

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G Preparation of [5-carbamoyl-2-(2-furyl)-9-(phenylmethyl)carbazol-4-yl]oxyacetic acid

[0244]

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OH₂ OH

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[0245] Prepared in 88% yield by the method of Example 17I 1 H NMR (DMSO-d_S) δ 4 89 (s, 2H) 5 71 (s. 2H), 6.58 (s, 1H), 6.94 (s, 1H), 7 00-7 38 (m. 9H) 7 59 (d. J=9 2 Hz, 1H), 7 58 (s, 1H), 7 72 (br s. 2H), 12 98 (br s. 1H); ESIMS m/e 441 (M++1);

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Elemental Analyses for C ₂₆ H ₂₀ N ₂ O ₅				
Calculated	C, 70 90 [.]	H. 4.58;	N, 6.36	
Found	C, 71 20:	H 4.67	N, 6.28.	

Example 23

[5-carbamoyl-9-(phenylmethyl)-2-{(tri(-1-methylethyl)silyl)oxymethyl|carbazol-4-yl|oxyacetic acid lithium salt

[0246]

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ONH₂ OLi OCH₂OSi(i-Pr)₃

A. Preparation of 5-carbomethoxy-1.2-dihydro-9-(phenylmethyl)-2-[(tri(-1-methylethyl)silyl)oxymethyl]carbazol-4(3H)-one

[0247]

OMe OCH₂OSi(i-Pr)₃

[0248] Trisopropylsilyl trifluoromethanesulfonate (2.46 mL, 9.15 mmol) was added to a stirred suspension of the compound of Example 19C (2.89 g, 7.95 mmol) and anhydrous pyridine (0.964 mL, 11.9 mmol) in anhydrous methylene chloride (29 mL) at 0 °C under a nitrogen atmosphere. The mixture was stirred at 0 °C for 1 hour. Methanol (0.5 mL) was added to the mixture and stirring was continued for 1 minute. After dilution with toluene (10 mL), the mixture was concentrated and the residue was subject to chromatographic punification on silica (gradient 10-50% ethyl acetate in hexane) to give subtitled compound (4.06 g, 99%) as a white solid. IR (KBr) 1725, 1645 cm⁻¹, ¹H NMR (CDCl₃) δ 0.90-1.15 (m, 21H,-CH(CH₃)₂), 2.50-2.63 (m, 3H), 2.74-2.86 (m, 1H), 3.02 (br d, J= 7.7 Hz, 1H) 3.67-3.81 (m, 2H, -CH₂O-), 4.05 (s, 3H,-OCH₃), 5.37 (s, 2H, -NCH₂-), 7.00-7.04 (m, 2H), 7.22-7.44 (m, 6H), ESIMS m/e 520 (M⁺+1).

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Elemental Analyses for C ₃₁ H ₄₁ NO ₄ Si				
Calculated	C, 71 64.	H. 7 95.	N. 2 69	
Found	C, 71.75,	H, 7.91.	N, 2.82	

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B. Preparation of 5-carbometh xy-4-hydroxy-9-(phenylmethyl)-2-[(tri(-1-methylethyl)silyl)oxym thyl]carbaz 1

[0249]

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[0250] Following the experimental procedure (b) as described in the synthesis of Example 17F, subtitled compound was obtained as a yellowish solid in a 93% yield. IR (KBr) 3165 (br). 1671, 1629 cm⁻¹; 1 H NMR (CDCl₃) 8 1 00-1 22 (m, 21H,-CH(CH₃)₂), 4 10 (s, 3H, -OCH₃). 4 97 (s. 2H, -OCH₂-), 5 51 (s, 2H, -NCH₂-), 6 79 (s, 1H), 7.05-7 14 (m, 3H), 7.20-7 30 (m, 3H), 7.39 (t, 1 E 8.0 Hz, 1H), 7 59 (d, 1 E 8 0 Hz, 1H), 7 98 (d J= 8 0 Hz, 1H), 10 50 (s, 1H, -OH); ESIMS 1 ESIMS (M⁺+1).

Elemental Analyses for C ₃₁ H ₃₉ NO ₄ Sı				
Calculated	C. 71 92.	H, 7.59.	N, 2 71	
	C. 72 19.		N 276	

C Preparation of 5-carbamoyl-4-hydroxy-9-(phenylmethyl)-2-[(tri(-1-methylethyl)sityl)oxymethyl]carbazole

o [0251]

[0252] Following the experimental procedure as described in the synthesis of Example 17F(b). subtitled compound was obtained as a yellowish solid in a 80% yield. IR (KBr) 3348 (br), 3200, 1660, 1628 cm⁻¹. ¹HNMR (CDCl₃) δ 1.00-1 20 (m, 21H -CH(CH₃)₂), 4 94 (s. 2H, -OCH₂-), 5.52 (s. 2H, -NCH₂-), 6 22 (s. 1H, -NH), 6 56 (s. 1H, -NH), 6 75 (s. 1H), 7.05-7 10 (m. 3H), 7.20-7.28 (m, 3H), 7 36 (t, ≠ 7 6 Hz. 1H), 7 43 (d, ≠ 7 6 Hz, 1H) 7.53 (d, ≠ 7 6 Hz, 1H), 9 75 (br s, 1H, -OH). ESIMS *m/e* 503 (M++1)

D Preparation of [5-carbamoyl-9-(phenylmethyl)-2-[(tri(-1-methylethyl)silyl)oxymethyl]carbazol-4-yl]oxyacetic acid. methyl ester

[0253]

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[0254] Following the experimental procedure as described in the synthesis of Example 17H subtitled produce was obtained as a white solid in a 94% yield IR (KBr) 3484. 3180 (br). 1764. 1675 cm⁻¹. ¹H NMR (CDCl₃) δ 1 00-1 20 (m, 21H,-CH(CH₃)₂) 3 82 (s. 3H. -OCH₃). 4 89 (s. 2H -OCH₂-) 4 93 (s. 2H, -OCH₂-) 5 50 (s. 2H -NCH₂-), 6 00 (br s. 2H. -NH₂). 6 60 (s. 1H). 7 05-7 12 (m. 3H). 7 22-7 28 (m. 3H), 7 32-7 38 (m. 1H), 7 39-7 41 (m. 2H). ESIMS *m/e* 575 (M*+1).

Elemental Analyses for C ₃₀ H ₄₂ N ₂ O ₅ S ₁				
Calculated	C. 68 96.	H 7 37	N. 4 87	
Found	C 69 14	H, 7 20	N. 4 95.	

E Preparation of [5-carbamoyl-9-(phenylmethyl)-2-{(tn(-1-methylethyl)silyl)oxymethyl]carbazol-4-yl]oxyacetic acid. Iithium salt

[0255]

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[0256] Lithium hydroxide (4 17 N. 42 5 mL, 0 177 mmol) was added to a stirred suspension of part D above (50 9 mg, 0.0886 mmol) in THF (1 mL)/CH₃OH (0 3 mL)/H₂O (0 3 mL). The resultant mixture was stirred in an oil bath at 55 °C for 1 hour to form a white suspension. At ambient temperature, the white suspension was diluted with water (5 mL) and THF was evaporated *in vacuo*. After filtration and washing with water, the white solid was dried under vacuum to give 11 (40 0 mg, 80%) of the title product. IR (KBr) 3470–3315, 1652, 1621 cm⁻¹, ¹H NMR (DMSO-d₅) δ 0 90-1 15 (m, 21H, -CH(CH₃)₂), 4 29 (s. 2H, -OCH₂-), 4.84 (s. 2H, -OCH₂-), 5.57 (s. 2H, -NCH₂-), 6 49 (s. 1H), 7 00-7.25 (m, 7H), 7 31 (br t, J= 7.9 Hz, 1H), 7 43 (br s. 1H, -NH), 7 59 (br d, J= 7 9 Hz, 1H), 7 72 (br s. 1H, -NH), ESIMS m/e 567 (M++1).

Preparation 3

Preparation of 5-Carbomethoxy-1.2-dihydro-9H-carbazol-4(3H)-one from 2-chloro-3-nitrobenzoic acid

5 [0257]

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a) Methyl 2-chloro-3-nitrobenzoate

A solution of 2-chloro-3-nitrobenzoic acid (20.16 g. 100 0 mM), iodomethane (15 6 g. 110 mM) and potassium carbonate (15 0 g. 108 5 mM) in 100 mL DMF was stirred at room temperature for 48 hours. The mixture was poured into 1.5 liters of $\rm H_2O$. The resultant precipitate was collected by 20.0 g (93%) of methyl 2-chloro-3-nitrobenzoate as a white solid. ¹H NMR (CDCl₃) δ 8 42 (dd. 1H, J=1 and 8 Hz) 8 16 (dd. 1H, J=1 and 8 Hz). 7 43 (t. 1H, J=8 Hz), and 3 9 (s. 3H). IR (KBr, cm⁻¹)1743, 1719–1595, 1540, 1532, 1433, 1357, 1300, and 730. MS (FD) m/e 215, 216

Elemental Analyses for C ₈ H ₆ NO ₄ Cl ⁻				
Calculated	C, 44 57	H, 3.81:	N 6 50.	
Found	C, 44 19.	H. 3 45.	N. 6.19	

b) Methyl 2-chloro-3-aminobenzoate

Hydrogen gas was passed through a solution of methyl 2-chloro-3-nitrobenzoate (10 0 g. 46 4 mM) and 1.0 g of 3% sulfided platinum on carbon in 150 mL ethyl acetate for 48 hours at room temperature. The catalyst was removed by filtration through celite. Concentration of the filtrate afforded 8 6 g (100%) of methyl 2-chloro-3-aminobenzoate as a yellow oil. 1 H NMR (CDCl₃) δ 7 25 (dd. 1H, J=1 and 8 Hz), 7 2 (t. 1H, J=8 Hz), 6 95 (dd. 1H, J=1 and 8 Hz), and 3.9 (s. 3H). IR (CHCl₃, cm⁻¹) 3450, 3380, 2980, 2900, 1729, 1615, 1456, 1434, 1322, 1290, and 1268. MS (ES) m/e 186,188.

ı	Elemental Analyses for C ₈ H ₈ NO ₂ Cl				
	Calculated	C, 51 77.	H. 4 34.	N, 7 55	
	Found	C, 51 52,	H, 4.17,	N. 7 54	

b) Methyl 2-chloro-3-aminobenzoate

A solution of stannous chloride (27 0 g, 137 0 mM) in 55 mL of concentrated hydrochloric acid was slowly added to a solution of methyl 2-chloro-3-nitrobenzoate (6.0 g, 27 9 mM) in 75 mL ethanol at 15-20 °C over 1 hour. The mixture was then heated at 50-60 °C for 15 minutes. The mixture was cooled to room temperature and made alkaline by slow addition of solid sodium hydroxide maintaining a temperature of 30-35 °C. The resultant mixture was extracted three times with chloroform. The extracts were washed with brine, dried over sodium sulfate, filtered and concentrated to afford 2 6 g (50%) of methyl 2-chloro-3-aminobenzoate as a yellow oil. identical in all respects to the material derived via catalytic hydrogenation described above.

b) Methyl 2-chloro-3-aminobenzoate

A solution of sodium dithionite (14.0 g, 20.0 mM) and sodium carbonate (6 7 g) in 200 mL of water was slowly added to a solution of methyl 2-chloro-3-nitrobenzoat (6 0 g. 27.9 mM) in 40 mL methanol and 40 mL of tetrahydrofuran at 25 °C over 30 minutes. The mixtur was stirred at room temperature for an additional 30 minutes, then extracted with ethyl acetate. The extracts were washed with brine, dried over sodium sulfate, filtered and concen-

trated to afford 1.2 g (33%) of methyl 2-chloro-3-aminobenzoate as a y llow oil, identical in all respects to the material derived via catalytic hydrogenation described above

c) 3-(3-Carbomethoxy-2-chloroanilino)cyclohex-2-en-1-one

A mixture of methyl 2-chloro-3-aminobenzoate (11 11 g, 59 86 mM) and 1,3-cyclohexanedione (9 05 g 80 8 mM) was heated at 120 °C under a stream of nitrogen for 4 hours. The resultant solid was triturated with hot ethyl acetate, then dried *in vacuo* to afford 14 05 g (84%) of 3-(3-carbomethoxy-2-chloroanilino)cyclohex-2-en-1-one as a yellow orange solid. 1 H NMR (CDCl₃) δ 7.6 (dt. 1H, J=1 and 8 Hz), 7.3 (t, 1H, J=8 Hz), 6.6 (br s. 1H) 5 62 (s. 1H). 3 95 (s. 3H), 2 6 (t. 2H, J=6 Hz), 2 4 (t. 2H, J=6 Hz), and 2 1 (m. 2H). IR (CHCl₃, cm⁻¹) 3050, 2950, 1729, 1536, 1351–1299, 1290, 1267, and 1135 MS (ES) m/e 278, 280–282

Elemental A	emental Analyses for C ₁₄ H ₁₄ NO ₃ Cl.		
Calculated	C. 60 11°	H, 5 04.	N. 5 01
Found	C 57 51.	H. 4 99	N. 4 68

d) 5-Carbomethoxy-1.2-dihydro-9H-carbazol-4(3H)-one

A suspension of 3-(3-carbomethoxy-2-chloroanilino)cyclohex-2-en-1-one (10.22 g, 36 67 mM), palladium acetate (0 82 g. 3 66 mM) tricyclohexylphosphine (4 10 g. 14 62 mM) and triethylamine (30 0 mL, 21 78 g, 215.2 mM) in 100 mL acetonitrile was heated at 130 °C in a sealed vessel for 14 days. The mixture was diluted with ethyl acetate, washed twice with 1 N HCl, twice with $\rm H_2O$, once with saturated brine, dried over anhydrous magnesium sulfate. filtered, and concentrated to afford 9.9 g of a light brown gum. Purification by HPLC on silica gel (elution with gradient methylene chloride/ethyl acetate) afforded 4 68 g (52%) of the 5-carbomethoxy-1.2-dihydro-9H-carbazol-4(3H)-one as a yellow solid. H NMR (CDCl₃) δ 9 15 (br.s., 1H), 7 4 (dd, 1H, J=1 and 8 Hz), 7 35 (dd, 1H, J=1 and 8 Hz), 7 25 (L. 1H, J=8 Hz), 4 05 (s., 3H), 2 95 (t. 2H, J=6 Hz), 2 55 (t. 2H, J=6 Hz), and 2 2 (m., 2H). IR (CHCl₃, cm⁻¹) 3400, 3200 (br.) 3000, 2950, 1721, 1646, 1466, 1439, 1427, 1299, 1284, 1165, and 1135 MS (ES) m/e 242, 244.

Elemental A	Elemental Analyses for C ₁₄ H ₁₃ NO ₃		
Calculated	C. 69 12:	H, 5 39.	N. 5.76
Found	C. 68 82.	H, 5 67.	N. 5 60

Preparation 4

Preparation of 5-Carbomethoxy-1.2-dihydro-9H-carbazol-4(3H)-one from 2-bromo-3-nitrobenzoic acid

[0258]

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a) Methyl 2-bromo-3-nitrobenzoate

A solution of 2-bromo-3-nitrobenzoic acid (28.4 g. 115.0 mM), indomethane (18.0 g. 127 mM), and potassium carbonate (19.0 g. 137.4 mM) in 100 mL DMF was stirred at room temperature for 72 hours. The mixture was poured into 1.5 liters of $\rm H_2O$. The resultant precipitate was collected by filtration and dried in *vacuo* to afford 28.79 g (96%) of methyl 2-bromo-3-nitrobenzoate as a white solid. ¹H NMR (DMSO-d6) δ 8.3 (dd. 1H, J=1 and 8 Hz), 7.9 (dd. 1H, J=1 and 8 Hz), 7.7 (t, 1H, J=8 Hz), and 3.9 (s, 3H). IR (KBr. cm⁻¹) 2950, 1738, 1541, 1435, 1364,

1298, and 1142. MS (FD) m/e 259, 261.

Elemental Analyses for C ₈ H ₆ NO ₄ Br			
Calculated	C. 36 95;	H, 2 33;	N, 5.39
Found	C, 37.14:	H, 2 37.	N, 5 45

b) Methyl 2-bromo-3-aminobenzoate

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Hydrogen gas was passed through a solution of methyl 2-bromo-3-nitrobenzoate (0 20 g, 0.77 mM) and 0 1 g of 3% sulfided platinum on carbon in 25 mL ethyl acetate for 24 hours at room temperature. The catalyst was removed by filtration through celite. Concentration of the filtrate afforded 0 175 g (99%) of methyl 2-bromo-3-aminobenzoate as a yellow oil. ¹H NMR (CDCl₃) δ 7.15 (t, 1H, J=8 Hz), 7 1 (dd. 1H. J=1 and 8 Hz), 6.8 (dd. 1H, J=1 and 8 Hz), and 3.95 (s, 3H) IR (CHCl₃, cm⁻¹) 3550, 3380, 2980, 2900, 1729, 1613, 1465–1451, 1434, 1324, 1266, and 1025 MS (FD) m/e 230, 232.

Elemental A	Elemental Analyses for C ₈ H ₈ NO ₂ Br:		
Calculated	C, 41 77.	H, 3 51.	N, 6 09
	C, 42.01.		

b) Methyl 2-bromo-3-aminobenzoate

A solution of stannous chloride (15 0 g, 76.1 mM) in 30 mL of concentrated hydrochloric acid was slowly added to a solution of methyl 2-bromo-3-nitrobenzoate (4 0 g, 15.4 mM) in 90 mL ethanol at 15-30 °C over 1 hour. The mixture was then heated at 50-60 °C for 15 minutes. The mixture was cooled to room temperature and made alkaline by slow addition of solid sodium hydroxide maintaining a temperature of 30-35 °C. The resultant mixture was extracted three times with chloroform. The extracts were washed with brine, dried over sodium sulfate, filtered and concentrated to afford 3.51 g (99%) of methyl 2-bromo-3-aminobenzoate as a yellow oil, identical in all respects to the material derived via catalytic hydrogenation described above.

c) 3-(3-Carbomethoxy-2-bromoanilino)cyclohex-2-en-1-one

A mixture of methyl 2-bromo-3-aminobenzoate (13 2 g, 60 0 mM) and 1,3-cyclohexanedione (8 4 g, 75 mM) was heated at 125 °C under a stream of nitrogen for 4 h. The resultant solid was purified by HPLC on silica gel (elution with methylene chloride/ethyl acetate) to afford 17 2 g (85%) of 3-(3-carbomethoxy-2-bromoanilino)cyclohex-2-en-1-one as a tan foam. 1 H NMR (DMSO-d6) δ 8 75 (s, 1H), 7 6-7 4 (m, 3H), 4 65 (s, 1H), 3.85 (s, 3H), 2 6 (t, 2H, J=6 Hz), 2 15 (t, 2H, J=6 Hz), and 1.9 (m, 2H). IR (CHCl₃, cm⁻¹) 3400, 3004, 2954, 1732, 1607, 1588, 1573, 1513, 1464, 1436, 1412, 1308, 1249, 1177, and 1144 MS (ES) m/e 322, 324, 326.

	Elemental Analyses for C ₁₄ H ₁₄ NO ₃ Br			
	Calculated	C. 51 85;	H, 4 32;	N, 4.32
1	Found	C, 53.60:	H, 4.73,	N, 4 09.

d) 5-Carbomethoxy-1,2-dihydro-9H-carbazol-4(3H)-one

A suspension of 3-(3-carbomethoxy-2-bromoanilino)cyclohex-2-en-1-one (15 8 g, 48 8 mM), palladium acetate (1.12 g, 5 0 mM), tri-o-tolylphosphine (3 1 g, 10.0 mM), and triethylamine (6 3 g, 62 0 mM) in 120 mL acetonitrile was heated at reflux for 8 hours. The solvent was removed *in vacuo*. The residue was dissolved in methylene chloride, washed twice with 1 N HCl, twice with H_2O , once with saturated brine, dried over anhydrous magnesium sulfate, filtered, and concentrated to afford 17 g of a light brown foam. Purification by HPLC on silica gel (elution with gradient methylene chloride/ethyl acetate) afforded 9.2 g (78%) of the 5-carbomethoxy-1,2-dihydro-9H-carbazol-4(3H)-one as a yellow solid, identical with the material derived from 3-(3-carbomethoxy-2-chloroanilino)cyclohex-2-en-1-one, described above. ¹H NMR (DMSO-d6) δ 7 5 (d, 1H, J=8 Hz), 7 25-7 1 (m, 2H), 5 7 (s, 1H), 3 8 (s, 3H), 2 95 (t, 2H, J=6 Hz), 2.4 (t, 2H, J=6 Hz), and 2 1 (m, 2H). MS (ES) m/e 242, 244

EXAMPLE 24

Preparation of {9-[(phenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid sodium salt

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A 9-[(Phenyl)methyl]-5-carbomethoxy-1_2-dihydrocarbazol-4(3H)-one

[0260] A suspension of 5-carbomethoxy-1,2-dihydro-9H-carbazol-4(3H)-one (300 mg 1 23 mM), benzyl bromide (210 mg. 1 23 mM), and potassium carbonate (170 mg 1 23 mM) in 15 mL DMF was stirred at room temperature for 6 hours. The mixture was diluted with 80 mL $\rm H_2O$ and chilled in the refrigerator. The resultant white precipitate was collected by filtration, washed with $\rm H_2O$, and dried in *vacuo* to afford 325 mg (79%) of the 9-[(phenyl)methyl]-5-carbomethoxy-1 2-dihydrocarbazol-4(3H)-one as a white solid. $^1\rm H$ NMR (DMSO-d6) $^3\rm T$ 7 (dd. 1H. J=1 and 8 Hz), 7 45-7 0 (m. 7H), 5.6 (s. 2H) 3 8 (s, 3H), 3 05 (t. 2H J=6 Hz), 2.5 (t. 2H, J=6 Hz), and 2 2 (m. 2H). IR (KBr. cm⁻¹) 3421, 1726 1676, 1636, 1473, 1450, 1435, 1288, 1122, 764, 745, and 706, MS (ES) m/e 334

Elemental Analyses for C ₂₁ H ₁₉ NO ₃				
Calculated	C 75.68:	H, 5 71.	N. 4 20	
Found	C, 70 85:	H 5 53.	N. 4.49	

B 9-[(Phenyl)methyl]-4-hydroxy-5-carbomethoxy carbazole

[0261]

(a) A solution of the 9-[(phenyl)methyl]-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one (1 5 g 4 5 mM) and 2 3-dichloro-5.6-dicyano-1.4-benzoquinone (1 12 g, 5 0 mM) in 25 mL of toluene was stirred between 80-90 °C for 6 h. The mixture was purified directly by column chromatography on silica gel (elution with methylene chloride/ethyl acetate) to afford 420 mg (28%) of the 9-[(phenyl)methyl]-4-hydroxy-5-carbomethoxy carbazole as a yellow solid 1 H NMR (DMSO-d6) δ 10 25 (s. 1H), 7.7 (d. 1H, J=8 Hz), 7.4 (t. 1H, J=8 Hz), 7.4-7 0 (m. 8H) 6.6 (d. 1H, J=8 Hz), 5 6 (s. 2H), and 3 3 (s. 3H) IR (CHCl₃, cm⁻¹) 1723, 1685, 1621, 1597, 1568, 1496, 1453, 1442, 1392, 1286, 1267, 1156, and 1138 MS (ES) m/e 330, 332

Elemental Analyses for C ₂₁ H ₁₇ NO ₃				
Calculated C. 76 13: H, 5 14. N, 4 23				
Found	C. 75.90:	H, 5 20;	N 4 46	

(b) To a solution of the 9-[(phenyl)methyl]-5-carbomethoxy-1 2-dihydrocarbazol-4(3H)-one (2.87 g. 8.61 mM) in 29 ml dioxane was added 60% sodium hydride in mineral oil (0.79 g. 19.8 mM). The reaction was stirred 8 minutes, then methyl benzenesulfinate (1.80 ml. 13.8 mM) was added. The reaction was stirred an additional 1.5 h, then diluted with 43 ml dioxane and 1.13 ml acetic acid. The mixture was refluxed 1 h, diluted with ethyl acetate, and oxtracted with sat'd NaHCO₃ two times, then with brine. After drying (NaSO₄), evaporation in vacuo afforded 4.90 g. The mixture was purified by column chromatography on silica gel (elution with toluene/methylene chloride) to

afford 2.31 g (81%) of the 9-{(phenyl)methyl]-4-hydroxy-5-carbomethoxy carbazole 1 H NMR (DMSO-d6) δ 10 25 (s. 1H), 7 7 (d. 1H, J=8 Hz), 7 4 (t, 1H, J=8 Hz), 7.4-7 0 (m 8H), 6 6 (d. 1H, J=8 Hz), 5 6 (s. 2H), and 3.8 (s. 3H) IR (CHCl₃, cm⁻¹) 1723, 1685, 1621 1597, 1568, 1496 1453, 1442, 1392, 1286, 1267, 1156 and 1138 MS (ES) m/e 330, 332

Elemental Analyses for C ₂₁ H ₁₇ NO ₃ .				
Calculated C, 76 13, H. 5 14; N, 4 23				
Found	C, 75 90.	H, 5.20:	N, 4 46	

C 9-[(Phenyl)methyl]-4-hydroxy-5-carbamoyl carbazole

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[0262] A solution of the 9-{(phenyl)methyl]-4-hydroxy-5-carbomethoxy carbazole (200 mg, 0 6 mM) in 4 mL MeOH and 40 mL concentrated aqueous ammonium hydroxide was sonicated for 30 h at 40-50 °C. The mixture was diluted with ethyl acetate and acidified to pH 1 with 5 N HCI. The aqueous layer was extracted three times with ethyl acetate. The combined organic extracts were washed with saturated brine, dried over magnesium sulfate, filtered, and concentrated. The residue was purified by column chromatography on silica gel (elution with gradient methylene chloride/ethyl acetate) to afford 50 mg (26%) of the 9-{(phenyl)methyl]-4-hydroxy-5-carbamoyl carbazole as a white solid. ¹H NMR (DMSO-d_e) δ 10 5 (s. 1H), 8.8 (br. s. 1H), 8.4 (br. s. 1H), 7.85 (dd, 1H, J=1 and 8 Hz), 7.5-7.1 (m, 9H), 6.6 (d. 1H, J=8 Hz), and 5.8 (s. 2H). IR (KBr. cm⁻¹) 3428, 3198, 3063–1631, 1599, 1579, 1562, 1496–1442, 1330, 1261–1215, 775, and 697–MS (ES) m/e 315, 317

Elemental Analyses for C ₂₀ H ₁₆ N ₂ O ₂				
Calculated	C. 75 95.	H. 5 06,	N 8 86	
Found	C 7488.	H 5 40.	N. 7.78	

D [9-[(Phenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid. methyl ester

[0263] 40% Methanolic Triton B (0 11 mL. 0 24 mM) was added to a solution of the 9-[(phenyl)methyl]-4-hydroxy-5-carbamoyl carbazole (70 mg, 0 22 mM) in 20 mL DMF at 0 °C. After 15 minutes, methyl bromoacetate (70 mg, 0 44 mM) was added and the resultant mixture stirred at room temperature for 5 h. The mixture was diluted with ethyl acetate, washed with 1 N HCl, H₂O, and saturated brine, dried over magnesium sulfate, filtered, and concentrated. The residue was combined with the crude material derived from a similar run utilizing 45 mg (0 14 mM [0 36 mM total]) of 9-{(phenyl) methyl]-4-hydroxy-5-carbamoyl carbazole. The combined residues were purified by column chromatography on silica gel (elution with ethyl acetate) to afford 76 mg (54%) of the {9-[(phenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid, methyl ester as a white solid. ¹H NMR (DMSO-d6) δ 7 65 (d. 1H. J=8 Hz), 7 5 (br s. 1H), 7.4-7.15 (m, 9H), 7 1 (d. 1H. J=8 Hz), 6 6 (d. 1H, J=8 Hz), 5.7 (s, 2H), 4 9 (s, 2H), and 3 75 (s, 3H) IR (KBr, cm⁻¹) 3367, 3200, 1760, 1643, 1579, 1496, 1452, 1427, 1216, 1157, 772, and 716. MS (FD) m/e 388

Elemental Analyses for C ₂₃ H ₂₀ N ₂ O ₄				
Calculated C. 71 13; H. 5.15; N. 7 22				
Found	C. 70 77	H. 5.49;	N. 6 79.	

E {9-{(Phenyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid, sodium salt

[0264] A solution of the $\{9\{(phenyl)methyl]$ -5-carbamoylcarbazol-4-yl $\}$ oxyacetic acid, methyl ester (10 1 mg, 0 025 mM) and 0 025 mL (0 025 mM) of 1 N NaOH in 3 mL of ethanol was stirred for 16 h at 25 °C. The resultant white precipitate was collected by filtration, washed with a small amount of EtOH, then dried *in vacuo* to afford 7.1 mg (70%) of the $\{9\{(phenyl)methyl]$ -5-carbamoylcarbazol-4-yl $\}$ oxyacetic acid, sodium salt as a white powder 1 H NMR (DMSO-d6) δ 7 6 (d, 1H, J=8 Hz), 7 5-7.05 (m. 11H) 6 55 (d. 1H, J=8 Hz), 5.75 (s. 2H), and 4.3 (s. 2H) IR (KBr, cm⁻¹) 3471, 1657, 1615, 1591, 1496, 1453, 1412, 1330, 1272, and 1151, MS (ES) m/e 373, 375, 397 Elemental Analyses for $C_{22}H_{17}N_2O_4Na$: C. 66 67, H. 4 29, N, 7 07 Found C. 66 75; H, 4 55, N, 6.83

Preparation of {9-[(3-fluorophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid

[0265]

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A. 9-[(3-Fluorophenyl)methyl]-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one

[0266] 40% Methanolic Triton B (2 06 mL. 4.53 mM) was slowly added dropwise to a solution of 5-carbomethoxy-1.2-dihydro-9H-carbazol-4(3H)-one (930.0 mg. 3 82 mM) in 5 mL of DMF at 0 °C. After 5 minutes. 3-fluorobenzyl chloride (664.0 mg. 4 59 mM) was added and the resultant mixture stirred at 0 °C for 3 h, then at room temperature for 20 hours. The mixture was diluted with ethyl acetate, washed three times with 1 N HCl. three times with H₂O. once with saturated brine, dired over anhydrous magnesium sulfate, filtered, and concentrated. The residue was purified by column chromatography on silicated elution with gradient methylene chloride/ethyl acetate) to afford 502 3 mg (37%) of the 9-[(3-fluorophenyl)methyl]-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one as a yellow foam. ¹H NMR (CDCl₃) 8 7.4-7 2 (m. 4H), 6.9 (m. 1H), 6 7 (m, 2H), 5 35 (s, 2H), 4.05 (s, 3H), 2 9 (t, 2H, J=6 Hz), 2 65 (t, 2H, J=6 Hz), and 2 3 (m. 2H) IR (CHCl₃, cm⁻¹) 3050, 2950, 1725, 1654, 1464, 1451, 1440, 1268 and 1119 MS (ES) m/e 350, 352

Elemental A	Elemental Analyses for C ₂₁ H ₁₈ NO ₃ F			
Calculated	C, 71.78.	H, 5.16,	N. 3.99	
Found	C 72.00	H. 4.95:	N. 4 11	

B 9-[(3-Fluorophenyl)methyl]-4-hydroxy-5-carbomethoxy carbazole

[0267] A solution of the 9-[(3-fluorophenyl)methyl]-5-carbornethoxy-1,2-dihydrocarbazol-4(3H)-one (434.0 mg. 1 23 mM) and 2 3-dichloro-5. 6-dicyano-1, 4-benzoquinone (324.0 mg, 1 42 mM) in 20 mL of toluene was stirred between 70-80 °C for 5 h. The mixture was purified directly by column chromatography on silica gel (elution with methylene chloride) to afford 137.0 mg (32%) of the 9-[(3-fluorophenyl)methyl]-4-hydroxy-5-carbornethoxy carbazole as a yellow foam. 1 H NMR (DMSO-d6) δ 10.2 (s. 1H), 7.7 (d. 1H, J=8 Hz), 7.4 (t. 1H, J=8 Hz), 7.3 (m, 2H), 7.2 (d. 1H, J=8 Hz), 7.1 (d. 1H, J=8 Hz), 7.0-6.85 (m. 3H), 6.6 (d. 1H, J=8 Hz), 5.65 (s. 2H), and 3.85 (s. 3H) IR (CHCl₃, cm⁻¹) 3200 (br), 1667, 1597, 1452, 1442, 1285, and 1267 MS (ES) m/e 348, 350

Elemental Analyses for C ₂₁ H ₁₈ NO ₃ F.				
Calculated C, 72.20: H, 4.62: N, 4.01.				
Found	C. 72 30:	H 4.66;	N. 4.04.	

C. 9-[(3-Fluorophenyl)methyl]-4-hydroxy-5-carbamoyl carbazole

[0268] A solution of the 9-[(3-fluorophenyl)methyl]-4-hydr xy-5-carbomethoxy carbazole (130 8 mg, 0 37 mM) in 5

mL THF and 20 mL concentrated aqueous ammonium hydroxide was sonicated for 5 h at 40-50 °C. The mixture was diluted with ethyl acetate and acidified to pH 1 with 5 N HCI. The aqueous layer was extracted twice with ethyl acetate. The combined organic extracts were washed with saturated brine, dried over magnesium sulfate, filtered, and concentrated. The residue was purified by column chromatography on silicated (elution with gradient methylene chloride/ethyl acetate) to afford 57 4 mg (45%) of the 9-[(3-fluorophenyl)methyl]-4-hydroxy-5-carbamoyl carbazole as a white solid. HNMR (DMSO-d6) δ 10.5 (s. 1H), 8.8 (br.s. 1H), 8.4 (br.s. 1H), 7.8 (dd. 1H, J=1 and 6 Hz). 7.5 (m. 2H), 7.3 (m. 2H), 7.15-7.0 (m. 2H), 6.95 (d. 1H, J=8 Hz), 6.85 (d. 1H, J=8 Hz), 6.6 (d. 1H, J=8 Hz), and 5.7 (s. 2H). IR (CHCl₃, cm⁻¹) 3431, 3200 (br), 1628, 1614, 1600, 1580, 1546, 1488, 1448, 1329, 1261, and 776, MS (ES) m/e 333, 335.

Elemental Analyses for C ₂₀ H ₁₅ N ₂ O ₂ F				
Calculated	C, 71.85.	H. 4 52:	N 8 38	
Found	C, 74 45	H, 6 01:	N 8 48	

D {9-{(3-Fluorophenyl)methyl}-5-carbamoylcarbazol-4-yl}oxyacetic acid tert-butyl ester

[0269] 40% Methanolic Triton B (0.086 mL, 0.19 mM) was added to a solution of the 9-{(3-fluorophenyl)methyl]-4-hydroxy-5-carbamoyl carbazole (51.9 mg. 0.155 mM) in 3 mL DMF at room temperature. After 3 minutes t-butyl bromoacetate (87.8 mg. 0.44 mM) was added and the resultant mixture stirred at room temperature for 5 hours. The mixture was diluted with ethyl acetate, washed four times with H₂O and saturated brine dried over magnesium sulfate filtered, and concentrated. The residue was purified by column chromatography on silica get (elution with gradient methylene chloride/ethyl acetate) to afford 44.0 mg (63%) of the {9-{(3-fluorophenyl)methyl}-5-carbamoylcarbazol-4-yl} oxyacetic acid, tert-butyl ester as a white solid. ¹H NMR (DMSO-d6) δ 7.6 (d. 1H, J=8 Hz), 7.5-6.8 (m. 10H) 6.55 (d. 1H, J=8 Hz), 5.7 (s, 2H), 4.8 (s, 2H), and 1.45 (s. 9H) IR (CHCl₃, cm⁻¹) 3450, 3400, 1746, 1674, 1592, 1457–1369, and 1151–MS (FD) m/e 448

Elemental Analyses for C ₂₆ H ₂₅ N ₂ O ₄ F.				
Calculated C, 69 63: H, 5 62. N. 6 25				
Found	C, 69 35.	H. 5.44	N 6 23	

E. {9-[(3-Fluorophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid

[0270] A solution of the {9-[(3-fluorophenyl)methyl}-5-carbamoylcarbazol-4-yl}oxyacetic acid, tert-butyl ester (40 0 mg, 0 089 mM) in 2 mL of trifluoroacetic acid was stirred at room temperature for 5 hours. The solvent was removed in vacuo. The residue was triturated with ethyl ether, then dried in vacuo to afford 35 0 mg (100%) of the {9-[(3-fluorophenyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid as a white powder ¹H NMR (DMSO-d6) δ 13 0 (br s. 1H), 7.75 (s, 1H), 7.6 (d, 1H, J=8 Hz), 7 5-7.25 (m, 5H), 7 2-6.8 (m, 4H), 6 6 (d, 1H, J=8 Hz), 5 7 (s, 2H), and 4.8 (s, 2H) IR (KBr, cm⁻¹) 3423, 3400, 1736, 1637, 1615, 1589, 1499, 1487, 1450, 1436, 1331, 1250, and 1156 MS (ES) m/e 391, 393

Elemental Analyses for C ₂₂ H ₁₇ N ₂ O ₄ F				
Calculated	C, 67 34.	H. 4 37:	N. 7 14	
Found	C 67.63	H. 4 22.	N 7 35	

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EXAMPLE 26

Preparation of {9-[(3-Chlorophenyi)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid

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A 9-[(3-Chlorophenyl)methyl]-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one

[0272] A suspension of 5-carbomethoxy-1.2-dihydro-9H-carbazol-4(3H)-one (527 0 mg. 2 17 mM), 3-chlorobenzyl bromide (802 2 mg, 3 90 mM), a catalytic amount of sodium iodide (ca. 1 mg), and potassium carbonate (500.0 mg. 3 62 mM) was stirred at room temperature for 150 hours. The mixture was diluted with ethyl acetate, washed five times with $\rm H_2O$, once with saturated brine, dried over anhydrous magnesium sulfate, filtered, and concentrated. The residue was purified by column chromatography on silica gel (elution with gradient methylene chloride/ethyl acetate) to afford 537.1 mg. (67%) of the 9-[(3-chlorophenyl)methyl]-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one as a yellow foam. 1 H NMR (CDCl₃) $^{\circ}$ 7 5-7.2 (m, 5H), 7.1 (s. 1H), 6.85 (m, 1H), 5.35 (s, 2H), 4.05 (s. 3H), 2.9 (t. 2H, J=6 Hz), 2.65 (t. 2H, J=6 Hz), and 2.3 (m, 2H). IR (CHCl₃ cm-1). 3050, 2950, 1725, 1654, 1464, 1444, 1432, 1288 and 1120 MS (ES) m/e 366, 368, 370

Elemental Analyses for C₂₁H₁₈NO₃CI Calculated C. 68 57 H 4 93. N, 3 81. Found C. 68 61. H, 4 92. N, 3.70

B 9-[(3-Chlorophenyl)methyl]-4-hydroxy-5-carbomethoxy carbazole

[0273] A solution of the 9-[(3-chlorophenyl)methyl]-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one (480 5 mg. 1 31 mM) and 2,3-dichloro-5. 6-dicyano-1 4-benzoquinone (325 7 mg. 1 43 mM) in 50 mL of loluene was stirred between 70-80 °C for 3 hours. The mixture was purified directly by column chromatography on silica gel (elution with methylene chloride) to afford 172 6 mg (36%) of the 9-[(3-chlorophenyl)methyl]-4-hydroxy-5-carbomethoxy carbazole as a yellow foam. 1 H NMR (CDCl₃) δ 10 4 (s. 1H), 8 05 (d. 1H, J=8 Hz). 7 6 (d. 1H, J=8 Hz). 7.4 (m. 2H), 7 3-7 1 (m. 3H), 6 9-6 7 (m. 3H). 5 55 (s. 2H), and 4.15 (s. 3H). IR (CHCl₃, cm⁻¹). 3200 (br). 1684, 1598, 1442, 1428, 1331, 1285, and 1267 MS (ES) m/e 364, 366, 368

Elemental Analyses for C ₂₁ H ₁₆ NO ₃ CI:				
Calculated C. 68 95. H. 4.41: N, 3 83				
Found	C 69 23.	H 4 52.	N, 3.88.	

C 9-[(3-Chlorophenyl)methyl]-4-hydroxy-5-carbam yl carbazole

[0274] A solution of the 9-[(3-chloroph_nyl)methyl]-4-hydroxy-5-carbomethoxy carbazole (156.2 mg 0.43 mM) in 5

mL THF and 20 mL concentrated aque us ammonium hydroxide was sonicated for 5 hours at 40-50 °C. The mixture was diluted with ethyl ac tat and acidified to pH 1 with 5 N HCI. The aqueous layer was extracted twice with ethyl acetate. The combined organic extracts were washed with saturated brine, dried over magnesium sulfate, filtered, and concentrated. The residue was purified by column chromatography on silica gel (elution with gradient methylene chloride/ethyl acetate) to afford 69.7 mg (47%) of the 9-[(3-chlorophenyl)methyl]-4-hydroxy-5-carbamoyl carbazole as a white solid ¹H NMR (DMSO-d6) δ 10.5 (s, 1H), 8.8 (br s, 1H), 8.4 (br s, 1H), 7.8 (dd, 1H, J=1 and 8 Hz), 7.45 (m. 2H), 7.3 (m, 3H), 7.2 (s. 1H), 7.1 (d, 1H, J=8 Hz), 6.95 (s, 1H), 6.6 (d. 1H, J=8 Hz), and 5.7 (s, 2H) IR (CHCl₃, cm⁻¹) 3433, 3202 (br), 1630, 1600, 1580, 1564, 1433, 1330, 1261, and 776. MS (ES) m/e 349, 351, 353.

Elemental Analyses for C ₂₀ H ₁₅ N ₂ O ₂ Cl				
Calculated C, 68.48; H, 4 31; N. 7 99				
Found	C 68.64;	H 4 55;	N, 7.93	

D [9-[(3-Chlorophenyi)methyl]-5-carbamoyicarbazol-4-yl]oxyacetic acid, tert-butyl ester

[0275] 40% Methanolic Triton B (0 053 mL, 0.12 mM) was added to a solution of the 9-[(3-chlorophenyl)methyl]-4-hydroxy-5-carbamoyl carbazole (33.2 mg, 0 12 mM) in 2 mL DMF at room temperature. After 3 minutes, t-butyl bromoacetate (53.8 mg, 0.27 mM) was added and the resultant mixture stirred at room temperature for 20 h. The mixture was diluted with ethyl acetate, washed four times with H₂O, once with saturated brine, dried over magnesium sulfate, filtered, and concentrated. The residue was purified by column chromatography on silica gel (elution with gradient methylene chloride/ethyl acetate) to afford 42.1 mg (95%) of the {9-[(3-chlorophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid. tert-butyl ester as a white solid ¹H NMR (DMSO-d6) & 7 6 (d, 1H, J=8 Hz), 7 5-6.8 (m. 10H), 6 55 (d, 1H, J=8 Hz), 5 7 (s, 2H), 4.8 (s, 2H), and 1.45 (s, 9H). IR (CHCl₃, cm⁻¹) 3450, 3400, 1744, 1676, 1591–1457 1369, and 1150 MS (FD) m/e 464, 466

Elemental Analyses for C ₂₆ H ₂₅ N ₂ O ₄ Cl				
Calculated C, 67.17 H, 5 42: N. 6 03				
	C, 67.17;			

E. {9-{(3-Chlorophenyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid

[0276] A solution of the $\{9-\{(3-\text{chlorophenyl})\text{methyl}\}$ -5-carbamoylcarbazol-4-yl]oxyacetic acid, tert-butyl ester (35.6 mg, 0.077 mM) in 2 mL of trifluoroacetic acid was stirred at room temperature for 6 hours. The solvent was removed in vacuo. The residue was triturated with ethyl acetate, then dried in vacuo to afford 31.4 mg (100%) of the $\{9-\{(3-\text{chlorophenyl})\text{methyl}\}$ -5-carbamoylcarbazol-4-yl]oxyacetic acid as a white powder. ¹H NMR (DMSO-d6) δ 13.0 (br s. 1H), 7.75 (s. 1H), 7.6 (d. 1H, J=8 Hz), 7.4-7.25 (m, 7H), 7.2 (d. 1H, J=8 Hz), 7.0 (br t. 1H), 6.6 (d. 1H, J=8 Hz), 5.7 (s. 2H), and 4.8 (s. 2H). IR (KBr. cm⁻¹) 3456, 3416, 3335, 1735, 1638, 1617, 1580, 1499, 1452, 1431, 1431, 1329, 1255, 1157, 772, 764, and 717. MS (ES) m/e 407, 409, 411.

Elemental Analyses for C ₂₂ H ₁₇ N ₂ O ₄ Cl				
Calculated	C. 64 63.	H, 4 19;	N, 6 85	
Found	C, 64.55.			

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Preparation of (9-[(3-phenoxyphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid

[0277]

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A 9-[(3-Phenoxyphenyl)methyl]-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one

[0278] 40% Methanolic Triton B (1 53 mL, 3 4 mM) was slowly added dropwise to a solution of 5-carbomethoxy-1,2-dihydro-9H-carbazol-4(3H)-one (554.6 mg, 2.28 mM) in 5 mL of DMF at 25 °C. After 5 minutes. 3-phenoxybenzyl chloride (748 0 mg. 3 42 mM) was added and the resultant mixture stirred at room temperature for 24 hours. The mixture was diluted with ethyl acetate, washed three times with 1N HCl, three times with H₂O, once with saturated brine, dried over anhydrous magnesium sulfate, filtered, and concentrated. The residue was purified by column chromatography on silica gel (elution with gradient methylene chloride/ethyl acetate) to afford 563.6 mg (58%) of 9-{(3-phenoxyphenyl)methyl]-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one as a thick yellow oil 1H NMR (DMSO-d6) & 7.7 (dd. 1H J=1 and 8 Hz), 7.4-7.2 (m. 6H), 7.1 (t, 1H J=8 Hz), 6.95 (m. 2H), 6.8-6.7 (m, 2H), 5.55 (s. 2H), 3.75 (s. 3H) 3.0 (t. 2H, J=6 Hz), 2.45 (t, 2H, J=6 Hz), and 2.1 (m., 2H), IR (CHCl₃, cm⁻¹) 3050, 2950, 1725, 1653, 1585, 1487, 1465, 1268, 1252, and 1119, MS (ES) m/e 426

Elemental Analyses for C ₂₇ H ₂₃ NO ₄ :			
Calculated	C. 76 22:	H. 5 45.	N. 3 29.
	C. 76.21;		

B 9-[(3-Phenoxyphenyl)methyl]-4-hydroxy-5-carbomethoxy carbazole

[0279] A solution of the 9-[(3-phenoxyphenyl)methyl]-5-carbomethoxy-1 2-dihydrocarbazol-4(3H)-one (544 5 mg. 1.28 mM) and 2,3-dichloro-5.6-dicyano-1,4-benzoquinone (337.5 mg, 1.48 mM) in 20 mL of toluene was stirred between 70-80 °C for 4 hours. The mixture was purified directly by column chromatography on silica gel (elution with methylene chloride) to afford 107 0 mg (20%) of 9-[(3-phenoxyphenyl)methyl]-4-hydroxy-5-carbomethyoxy carbazole as a yellow powder 1 H NMR (DMSO-d6) δ 10 4 (s, 1H), 7.7 (d. 1H, J=8 Hz), 7 4-6.7 (m, 13H), 6 55 (d, 1H, J=8 Hz), 5 65 (s. 2H), and 3 85 (s, 3H) IR (CHCl₃, cm⁻¹) 3200 (br), 1687, 1597, 1584, 1487, 1441, 1332, 1284, 1267, and 1252 MS (ES) m e 422, 424.

Elemental Analyses for C ₂₇ H ₂₁ NO ₄ :				
Calculated C. 76.58: H, 5 00. N, 3 31.				
Found	C, 76 68;	H, 5 20.	N, 3 40.	

c) 9-[(3-Phenoxyphenyl)methyl]-4-hydroxy-5-carbamoyl carbazole

[0280] A solution of the 9-[(3-phenoxyphenyl)methyl]-4-hydroxy-5-carbomethoxy carbazole (100 0 mg. 0.24 mM) in 5 mL THF and 20 mL concentrated aqueous ammonium hydroxide was sonicated for 24 hours at 40-50 °C. The mixture was diluted with ethyl acetate and acidified to pH 1 with 5 N HCi. The aqueous layer was extracted twice with ethyl acetate. The combined organic extracts were washed with saturined brine, dried over magnesium sulfate, filtered, and concentrated. The residue was purified by column chromatography on silica gel (elution with gradient methylene chloride/ethyl acetate) to afford 41.0 mg (43%) of the 9-[(3-phenoxyphenyl)methyl]-4-hydroxy-5-carbamoyl carbazole as a white solid. 1 H NMR (DMSO-d6) δ 10.5 (s. 1H), 8.8 (br.s. 1H), 8.4 (br.s., 1H), 7.8 (dd, 1H, J=1 and 8 Hz), 7.5-6.7 (m, 13H), 6.6 (d, 1H, J=8 Hz) and 5.7 (s. 2H) MS (ES) m/e 407, 409

Elemental Analyses for C ₂₆ H ₂₀ N ₂ O ₃					
Calculated C. 76.46: H, 4.94, N. 6 86					
Found	C. 75.66;	H, 5.29;	N. 6 58		

D {9-{(3-Phenoxyphenyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid. tert-butyl ester

[0281] 40% Methanolic Triton B (0.054 mL. 0.12 mM) was added to a solution of the 9-[(3-phenoxyphenyl)methyl]-4-hydroxy-5-carbamoyl carbazole (39.5 mg. 0.10 mM) in 3 mL DMF at room temperature. After 3 minutes, t-butyl bromoacetate (54.8 mg. 0.27 mM) was added and the resultant mixture stirred at room temperature for 5 hours. The mixture was diluted with ethyl acetate, washed four times with H₂O, once with saturated brine, dried over magnesium sulfate filtered, and concentrated. The residue was purified by column chromatography on silica gel (elution with gradient methylene chloride/ethyl acetate) to afford 33.0 mg (65%) of the (9-[(3-phenoxyphenyl)methyl]-5-carbamoylcar-bazol-4-yl]oxyacetic acid. tert-butyl ester as a white solid. The NMR (DMSO-d6) δ.7.6 (d. 1H, J=8 Hz), 7.5-6.8 (m. 15H), 6.55 (d. 1H, J=8 Hz), 5.7 (s. 2H), 4.8 (s. 2H) and 1.45 (s. 9H) IR (KBr. cm⁻¹) 3450, 1748, 1670, 1582, 1486, 1246, 1225, and 1151. MS (ES) m/e 523

Elemental Analyses for C ₃₂ H ₃₀ N ₂ O ₅ .			
Calculated	C, 73 55.	H, 5 79:	N. 5.36
Found	C, 73 84	H 583:	N, 5.30

E. {9-[(3-Phenoxyphenyl)methyl]-5-carbamoylcarbazol-4-yl} oxyacetic acid

[0282] A solution of the $\{9-[(3-phenoxyphenyl)methyl]$ -5-carbamoylcarbazol-4-yl $\}$ oxyacetic acid tert-butyl ester (30 0 mg, 0.063 mM) in 2 mL of trifluoroacetic acid was stirred at room temperature for 6 hours. The solvent was removed in vacuo. The residue was dried in vacuo to afford 30.0 mg (100%) of the $\{9-[(3-phenoxyphenyl)methyl]$ -5-carbamoylcarbazol-4-yl $\}$ oxyacetic acid as a white powder 1 H NMR (DMSO-d6) δ 13.0 (br s, 1H), 7 75 (s, 1H), 7 6 (d, 1H, J=8 Hz), 7 5-6.8 (m. 14H), 6 6 (d. 1H, J=8 Hz), 5 7 (s. 2H), and 4 8 (s, 2H). IR (KBr, cm $^{-1}$) 3450, 3400 1740, 1651, 1592, 1585, 1487, 1457, 1441 1329, 1250, and 1158, MS (ES) m/e 465, 467.

Elemental Analyses for C ₂₈ H ₂₂ N ₂ O ₅ :			
Calculated	C, 72 09.	H, 4 75	N, 6 00
Found	C, 67 65	H, 4.64:	N, 6 02

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Preparation of [9-[(2-Fluorophenyl)methyl]-5-carbamoyicarbazol-4-yl]oxyacetic acid

[0283]

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A 9-[(2-Fluorophenyl)methyl]-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one

[0284] 40% Methanolic Triton B (2 82 mL. 6 2 mM) was slowly added dropwise to a solution of 5-carbomethoxy-1,2-dihydro-9H-carbazol-4(3H)-one (1 27 g. 5 22 mM) in 10 mL of DMF at 25 °C. After 5 minutes. 2-fluorobenzyl bromide (1 19 g. 6 2 mM) was added and the resultant mixture stirred at room temperature for 17 days. The mixture was diluted with ethyl acetate, washed five times with H₂O once with saturated brine, dried over anhydrous magnesium sulfate, filtered, and concentrated. The residue was purified by column chromatography on silica gel (elution with gradient methylene chloride/ethyl acetate) to afford 1 00 g (55%) of the 9-{(2-fluorophenyl)methyl}-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one as a tan foam.

 1 H NMR (DMSO-d6) δ 7 7 (dd 1 H J=1 and 8 Hz) 7 4-7 2 (m, 4H), 7.1 (t. 1H J=8 Hz) 6 7 (t. 1H, J=8 Hz), 5 65 (s. 2H), 3 8 (s. 3H) 3 0 (t. 2H, J=6 Hz), 2 45 (t. 2H, J=6 Hz), and 2 1 (m. 2H) IR (CHCl₃ cm⁻¹) 3050 2950, 1725, 1652, 1464, 1441, 1288 and 1120 MS (ES) m/e 350, 352.

Elemental Analyses for C ₂₁ H ₁₈ NO ₃ F.			
Calculated	C, 71 78.	H. 5 16.	N. 3 99
Found	C. 71 51.	H, 5 08.	N 385

B 9-[(2-Fluorophenyl)methyl]-4-hydroxy-5-carbomethoxy carbazole

[0285] A solution of the 9-{(2-fluorophenyl)methyl]-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one (1 00 g. 2.85 mM) and 2.3-dichloro-5.6-dicyano-1.4-benzoquinone (800 0 mg 3 51 mM) in 50 mL of toluene was stirred between 70-80 °C for 6 h. The mixture was purified directly by column chromatography on silica gel (elution with methylene chloride) to afford 250 0 mg (25%) of the 9-{(2-fluorophenyl)methyl]-4-hydroxy-5-carbomethyoxy carbazole as a dark solid. ¹H NMR (DMSO-d6) δ 10 2 (s. 1H). 7 7 (d, 1H J=8 Hz). 7 4 (t. 1H. J=8 Hz). 7.3-6 85 (m, 6H), 6 75 (dt. 1H, J=5 and 8 Hz), 6 6 (d. 1H, J=8 Hz), 5 7 (s, 2H). and 3.85 (s. 3H). IR (CHCl₃, cm⁻¹) 3200 (br) 1666, 1598, 1490, 1442, 1285–1268, 1230, and 1139 MS (ES) m/e 348, 350.

Elemental Analyses for C ₂₁ H ₁₆ NO ₃ F.				
Calculated C 72 20, H, 4 62, N, 4 01.				
Found C. 71 32. H. 4 75. N. 4 11				

C 9-[(2-Fluorophenyl)methyl]-4-hydroxy-5-carbamovi carbazole

[0286] A solution of the 9-[(2-fluorophenyl)methyl]-4-hydroxy-5-carbomethoxy carbazole (237 5 mg, 0 68 mM) in 10 mL THF and 40 mL concentrated aqueous ammonium hydroxide was sonicated for 20 h at 40-50 °C. The mixture was

diluted with ethyl acetate and acidified to pH 1 with 5 N HCl. The aqueous layer was extracted twice with ethyl acetate. The combined organic extracts were washed with saturated brine, dried over magnesium sulfate filtered, and concentrated. The residue was purified by column chromatography on silica gel (elution with gradient methylene chloride/ethyl acetate) to afford 89 7 mg (40%) of the 9-[(2-fluorophenyl)methyl]-4-hydroxy-5-carbamoyl carbazole as a white solid. HNMR (DMSO-d6) δ 10 5 (s. 1H), 8.8 (br. s. 1H), 8.4 (br. s. 1H), 7.8 (dd, 1H, J=1 and 8 Hz), 7.5-6.9 (m, 7H), 6.65 (m, 2H), and 5.75 (s. 2H), IR (KBr. cm⁻¹) 3395, 3192 (br.), 1621, 1599, 1580, 1564, 1491, 1455, 1334, 1261, and 774. MS (ES) m/e 333. 335

Elemental Analyses for C ₂₀ H ₁₅ N ₂ O ₂ F				
Calculated	C, 71 85:	H. 4.52,	N. 8 38	
Found	C. 72 57.	H, 488.	N, 7.84.	

D {9-[(2-Fluorophenyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid, methyl ester

[0287] 40% Methanolic Triton B (0.14 mL. 0.31 mM) was added to a solution of the 9-[(2-fluorophenyl)methyl]-4-hydroxy-5-carbamoyl carbazole (51.9 mg. 0.155 mM) in 5 mL DMF at room temperature. After 3 minutes, methyl bromoacetate (110.5 mg. 0.72 mM) was added and the resultant mixture stirred at room temperature for 20 hours. The mixture was diluted with ethyl acetate, washed four times with H_2O once with saturated brine, dried over magnesium sulfate. filtered, and concentrated. The residue was purified by column chromatography on silica gel (elution with gradient methylene chloride/ethyl acetate) to alford 72.8 mg (71%) of the $\{9-[(2-fluorophenyl)methyl]-5-carbamoylcarbazol-4-yl]$ oxyacetic acid methyl ester as a white solid. ¹H NMR (DMSO-d6) δ 7.65 (d. 1H. J=8 Hz), 7.5 (s. 1H) 7.4-7.2 (m. 5H), 7.15 (s. 1H), 7.1 (d. 1H. J=8 Hz), 7.05 (t. 1H. J=8 Hz), 6.7 (t. 1H. J=8 Hz), 6.55 (d. 1H. J=8 Hz), 5.7 (s. 2H), 4.85 (s. 2H), and 3.7 (s. 3H). IR (CHCl₃, cm⁻¹) 3436. 1763, 1675,1457. 1327, 1208, 1198. 1150. 1102, 772. 756, and 719. MS (FD) m/e 407

Elemental Analyses for C ₂₃ H ₁₉ N ₂ O ₄ F				
Calculated C, 67.97: H. 4.71; N, 6.89				
Found	C, 68 00:	H, 4.92,	N, 6 75	

E {9-{(2-Fluorophenyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid

[0288] A solution of the {9-{(2-fluorophenyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid, methyl ester (47 9 mg, 0 118 mM) and 0 28 mL (0 28 mM) of 1 N NaOH in 10 mL of methanol was sonicated for 6 hours at 50-60 °C, then stirred at room temperature for 16 hours. The mixture was diluted with ethyl acetate and acidified to pH 1 with 5 N HCl. The aqueous layer was extracted twice with ethyl acetate. The combined organic extracts were washed with saturated brine, dried over magnesium sulfate, filtered, and concentrated to afford 42.8 mg (92%) of the {9-{(2-fluorophenyl) methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid as a white powder ¹H NMR (DMSO-d6) δ 7 75 (s, 1H), 7 6 (d, 1H, J=8 Hz), 7 5-7.25 (m. 6H), 7 15 (d, 1H, J=8 Hz), 7 05 (dt, 1H, J=1 and 8 Hz), 6 75 (dt, 1H, J=1 and 8 Hz), 6 65 (d 1H, J=8 Hz), 5.7 (s, 2H), and 4 8 (s. 2H) IR (KBr, cm⁻¹) 3428, 3400, 1737, 1635, 1617, 1583, 1572, 1500, 1491, 1453, 1434, 1330, 1248, 1153, 1098, 760, and 714 MS (FD) m/e 392

Elemental Analyses for C ₂₂ H ₁₇ N ₂ O ₄ F			
Calculated	C, 67 34,	H, 4 37	N 7 14
Found	C, 66 65.	H, 4 55.	N. 6 92

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Preparation of [9-[(2-Influoromethylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid

[0289]

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A 9-[(2-Trifluoromethylphenyl)methyl]-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one

[0290] 40% Methanolic Triton B (2 15 mL. 4 3 mM) was slowly added dropwise to a solution of 5-carbomethoxy-1 2-dihydro-9H-carbazol-4(3H)-one (973 mg. 4 0 mM) in 10 mL of DMF at-10 °C. After 30 minutes. 2-{trifluoromethyl} benzyl bromide (1 3 g. 5 2 mM) was added and the resultant mixture stirred at room temperature for 23 hours. The mixture was diluted with ethyl acetate, washed five times with H_2O , once with saturated brine, dried over anhydrous magnesium sulfate, filtered, concentrated, and dried in *vacuo* to afford 1 34 g (83%) of the 9-{(2-trifluoromethylphenyl) methyl]-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one as a tan solid. 1H NMR (CDCl₃) δ 7 7 (d. 1H, J=8 Hz), 7 4-7 1 (m. 5H), 6 4 (d. 1H, J=8 Hz), 5 5 (s. 2H), 4 05 (s. 3H), 2 8 (t. 2H, J=6 Hz), 2 6 (t. 2H, J=6 Hz), and 2 2 (m, 2H), IR (KBr. cm⁻¹) 1729 and 1656, MS (ES) m/e 402

Elemental Analyses for C ₂₂ H ₁₈ NO ₃ F ₃ .					
Calculated	C. 65 83:	H. 4.52;	N 349:	F. 14.20.	
Found	C. 66 07 [.]	H, 4 59	N 320:	F, 13.95	

B 9-[(2-Trifluoromethylphenyl)methyl]-4-hydroxy-5-carbomethoxy carbazole

[0291] A solution of the 9-[(2-trifluoromethylphenyl)methyl]-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one (1 21 g 3.00 mM) and 2,3-dichloro-5.6-dicyano-1.4-benzoquinone (764 mg 3 3 mM) in 25 mL of toluene was stirred between 80-90 °C for 7 h. The mixture was purified directly by column chromatography on silica gel (elution with methylene chloride) to afford 340 0 mg (2E%) of the 9-[(2-trifluoromethylphenyl)methyl]-4-hydroxy-5-carbomethyoxy carbazole as a brown powder ¹H NMR (CDCl₃) δ 10 4 (s. 1H). 8 0 (d. 1H, J=8 Hz). 7.7 (d. 1H, J=8 Hz). 7.5-7 2 (m, 5H). 6 85 (m. 2H). 6 45 (d. 1H, J=8 Hz). 5.7 (s. 2H). and 4 1 (s. 3H). IR (CHCl₃, cm⁻¹) 3200 (br) and 1677 MS (ES) m/e 398, 400.

Elemental Analyses for C ₂₂ H ₁₆ NO ₃ F ₃					
Calculated	C, 66 17:	H. 4 04,	N, 3.51:	F 14 27.	
	C, 66 93.				

C 9-[(2-Trifluoromethylphenyl)methyl]-4-hydroxy-5-carbamoyl carbazole

[0292] A solution of the 9-[(2-trifluoromethylphenyl)methyl]-4-hydroxy-5-carbomethoxy carbazole (310 mg. 0.77 mM) in 5 mL THF and 20 mL concentrated aqueous ammonium hydroxide was sonicated for 25 hours at 40-50 °C. The mixture was diluted with ethyl acetate and acidited to pH 1 with 5 N HCl. The aqui ous layer was extracted twice with thyl acetate. The combined organic extracts were washed with saturated brine, dried over magnesium sulfate, filtered, and concentrated. The residu was purified by column chromatography on silica gel (elution with gradient methylene)

chloride/ethyl acetat.) to afford 145 mg (49%) of th. 9-[(2-trifluoromethylphenyl)m. thyl]-4-hydroxy-5-carbamoyl carbazole as a white solid. 1 H NMR (DMSO-d6) δ 10.5 (s. 1H), 8.8 (br.s., 1H), 8.4 (br.s., 1H), 7.8 (d. 1H, J=8 Hz), 7.6-7.2 (m, 6H), 6.85 (d, 1H, J=8 Hz), 6.6 (d, 1H, J=8 Hz), 6.25 (d, 1H, J=8 Hz), and 5.8 (s. 2H). IR (KBr, cm⁻¹) 3460, 3360 and 1589 MS (ES) m/e 383, 385

Elemental Analyses for C ₂₁ H ₁₅ N ₂ O ₂ F ₃ :					
Calculated Found				F, 14.83. F, 14.94.	

D [9-[(2-Trifluoromethylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid, methyl ester

[0293] 40% Methanolic Triton B (0.18 mL. 0.4 mM) was added to a solution of the 9-[(2-trifluoromethylphenyl)methyl]-4-hydroxy-5-carbamoyl carbazole (120 mg. 0.31 mM) in 5 mL DMF at room temperature. After 15 minutes, methyl bromoacetate (98.5 mg, 0.62 mM) was added and the resultant mixture stirred at room temperature for 4.5 hours. The mixture was diluted with ethyl acetate, washed four times with H₂O. 1 N HCl. H₂O. sat. NaHCO₃, and saturated brine, dried over magnesium sulfate, filtered, and concentrated. The residue was purified by column chromatography on silicate (elution with gradient methylene chloride/ethyl acetate/THF) to afford 95 mg (67%) of the {9-((2-trifluoromethylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid, methyl ester as a white solid. H NMR (CDCl₃) & 7.7 (d. 1H, J=8 Hz), 7.5-7.2 (m. 6H), 6.95 (d. 1H. J=8 Hz), 6.6 (d. 1H. J=8 Hz), 6.45 (d. 1H, J=8 Hz), 6.3 (br. s. 1H), 6.1 (br. s. 1H), 5.7 (s. 2H), 4.9 (s. 2H), and 3.9 (s. 3H). IR (CHCl₃, cm⁻¹) 1763 and 1674. MS (ES) m/e 457

Elemental Analyses for C ₂₄ H ₁₉ N ₂ O ₄ F ₃					
Calculated C, 63 16: H. 4 20 N, 6.14.					
Found	C. 61 82.	H. 4 31	N. 5 86.		

E. (9-{(2-Trifluoromethylphenyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid

[0294] A solution of the [9-[(2-Irrifluoromethylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid, methyl ester (70 mg, 0 153 mM) and 0 21 mL (0 21 mM) of 1 N NaOH in 5 mL of methanol was sonicated for 23 hours at 50-60 °C. The methanol was removed *in vacuo* and the mixture acidified to pH 1 6 with 1 N HCl. The resultant white precipitate was collected by filtration, washed with H₂O. small amounts of MeOH and diethyl ether, then dried in *vacuo* to afford 59 mg (38%) of the [9-[(2-Irrifluoromethylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid as a white powder. ¹H NMR (DMSO-d6) δ 13.0 (br s, 1H), 7 8 (d, 1H, J=8 Hz), 7 75 (s, 1H), 7.5-7 3 (m, 6H), 7 1 (d, 1H, J=8 Hz), 7.05 (d, 1H, J=8 Hz), 6 6 (d, 1H, J=8 Hz), 6.3 (d, 1H, J=8 Hz), 5.8 (s, 2H), and 4.8 (s, 2H) IR (KBr, cm⁻¹) 1737 and 1635. MS (ES) m/e 441, 443

Elemental Analyses for C ₂₃ H ₁₇ N ₂ O ₄ F ₃					
Calculated	C, 62.45,	H, 3.87.	N, 6 33,	F, 12.88	
				F, 12.59	

EXAMPLE 30

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[0295] Preparation of {9-[(2-benzylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid. sodium salt

A 2-Benzylbenzyl bromide

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[0296] A solution of phosphorus tribromide (2.1 mL, 6.0 g, 22.1 mM) in 30 mL of carbon tetrachloride was slowly added dropwise to solution of 2-benzylbenzyl alcohol (1.98 g, 10 mM) in 70 mL of carbon tetrachloride at 0 °C. The mixture was stirred at 0 °C for 2 hours, then at room temperature for 2 hours. The solvent was removed *in vacuo* and the residue diluted with ethyl acetate and saturated aqueous sodium bicarbonate. The organic layer was washed with brine, dried over magnesium sulfate, filtered, and concentrated to afford 2.6 g (99%)of 2-benzylbenzyl bromide as a yellow solid. H NMR (DMSO-d6) 87.5-7.0 (m, 9H) 4.7 (s, 2H), and 4.15 (s. 2H), IR (CHCl₃, cm⁻¹) 3065, 1601, 1495, and 1453. MS (FD) m/e 260, 262.

Elemental Analyses for C ₁₄ H ₁₃ Br					
Calculated	C. 64 37.	H 4.98.	N 0 00		
	C, 65 26				

B 9-[(2-Benzylphenyl)methyl]-5-carbomethoxy-1 2-dihydrocarbazol-4(3H)-one

[0297] 40% Methanolic Triton B (0 95 mL 2 1 mM) was slowly added dropwise to a solution of 5-carbomethoxy-1,2-dihydro-9H-carbazol-4(3H)-one (510 mg 2 1 mM) in 30 mL of DMF at-10 °C. After 3 minutes, 2-benzylbenzyl bromide (546 mg, 2.1 mM) was added and the resultant mixture stirred at room temperature for 6 hours. The mixture was diluted with ethyl acetate and 1 N HCI, washed twice with H₂O, once with saturated brine dried over anhydrous magnesium sulfate, filtered, concentrated, and dried *in vacuo*. The reside was purified by column chromatography on silicated (elution with ethyl acetate) to afford 324 mg (36%) of the 9-{(2-benzyliphenyl)methyl}-5-carbomethoxy-1 2-dihydrocarbazol-4(3H)-one as a tan solid ¹H NMR (CDCl₃) ô 7 45-7 0 (m, 10H), 6 9 (d, 1H, J=8 Hz), 6.3 (d, 1H, J=8 Hz), 5.2 (s, 2H), 4.15 (s, 2H), 4.05 (s, 3H), 2.5 (m, 4H), and 2.1 (m, 2H), IR (KBr, cm⁻¹) 1726–1653–1466–1443–1411, 1263, 1200–1119, and 749 MS (ES) m/e 422, 424

Elemental Analyses for C ₂₆ H ₂₅ NO ₃					
Calculated	C. 79 43	H 5 91	N, 3 31		
Found	C, 79 58.	H. 5 94	N, 3 32		

C 9-[(2-Benzylphenyl)methyl]-4-hydroxy-5-carbomethoxy carbazole

[0298] A solution of the 9-[(2-benzylphenyl)methyl]-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one (480 mg. 1 14 mM) and 2.3-dichloro-5.6-dicyano-1 4-benzoquinone (250 mg. 5 0 mM) in 30 mL of toluene was stirred between 80-90 °C for 5 hours. The mixture was purified directly by column chromatography on silica gel (elution with methylene chloride/ethyl acetate) to afford 166 mg (35%) of the 9-[(2-benzylphenyl)methyl]-4-hydroxy-5-carbomethyoxy carbazole as a yellow solid 1 H NMR (CDCl₃) δ 10 4 (s. 1H). δ 0 (d. 1H J=8 Hz). 7 4-7 0 (m. 11H), δ 8 (d. 1H, J=8 Hz). 5 4 (s. 2H). 4 25 (s. 2H) and 4 1 (s. 3H) IR (CHCl₃, cm⁻¹) 1664 1597, 1495. 1452. 1442. 1333 1284. 1269. and 1140 MS (ES) m/e 420. 422

D. 9-[(2-Benzylphenyl)methyl]-4-hydroxy-5-carbam yl carbazole

[0299] A solution of the 9-[(2-benzylphenyl)methyl]-4-hydroxy-5-carbomethoxy carbazole (166 mg 0 39 mM) in 8 mL THF and 30 mL concentrated aqueous ammonium hydroxide was sonicated for 30 hours at 40-50 °C. The mixture was diluted with ethyl acetate and acidified to pH 1 with 5 N HCl. The aqueous layer was extracted twice with ethyl acetate. The combined organic extracts were washed with saturated brine, dried over magnesium sulfate, filtered, and concentrated. The residue was purified by column chromatography on sitical gel (ellution with ethyl acetate) to afford 70 mg (44%) of the 9-[(2-benzylphenyl)methyl]-4-hydroxy-5-carbamoyl carbazole as a white solid. ¹H NMR (CDCl₃) δ 8.0 (d, 1H, J=8 Hz), 7 4-7 0 (m, 12H), 6.8 (d, 1H, J=8 Hz), 6 6 (d, 1H, J=8 Hz), 6 5 (m. 1H) 6.4 (m, 1H), 5 8 (s, 1H), 5 4 (s, 2H), and 4 2 (s. 2H) MS (ES) m/e 405, 407

E {9- [(2-Benzylphenyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid. methyl ester

[0300] 40% Methanolic Triton B (0.12 mL. 0.26 mM) was added to a solution of the 9-[(2-benzylphenyl)methyl]-4-hydroxy-5-carbamoyl carbazole (70 mg, 0.17 mM) in 10 mL DMF at 25 °C. After 3 minutes, methyl bromoacetate (55 mg 0.34 mM) was added and the resultant mixture stirred at room temperature for 25 hours. The mixture was diluted with ethyl acetate, washed with 1 N HCl, H_2O , and saturated brine, dried over magnesium sulfate filtered, and concentrated. The residue was purified by column chromatography on silica gel (elution with ethyl acetate) to afford 60 mg (73%) of the $\{9-[(2-benzylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid, methyl ester as a white solid <math>^1H$ NMR (CDCl₃) δ 7 4-7 00 (m. 14H), δ 65 (d. 1H, J=8 Hz), δ 55 (d. 1H, J=8 Hz), δ 4 (d. 1H, $^-J=8$ Hz), δ 4, (s. 2H), 4 95 (s. 2H), 4 2 (s. 2H), and 3 80 (s. 3H) IR (KBr, cm⁻¹) 3414, 3186, 1759, 1625, 1583, 1500, 1452, 1424, 1340, 1325, 1213, 1199, and 1108 MS (ES) m/e 477, 479.

Elemental Analyses for C ₃₀ H ₂₆ N ₂ O ₄ :					
Calculated C, 75 31. H, 5 44; N, 5 86					
Found	C. 75 08	H, 5 61:	N, 5 70		

F. {9-{(2-Benzylphenyl)methyl}-5-carbamoylcarbazol-4-yl}oxyacetic acid, sodium salt

[0301] A solution of the {9-[(2-benzylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid. methyl ester (16 2 mg. 0 034 mM) and 0.034 mL (0.034 mM) of 1 N NaOH in 3 mL of ethanol was stirred for 16 hours at 25 °C. The resultant white precipitate was collected by filtration, washed with a small amount of EtOH, then dried *in vacuo* to afford 7 1 mg (70%) of the {9-[(2-benzylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid, sodium salt as a white powder ¹H NMR (DMSO-d6) & 7 5-6 8 (m. 14H), 6 65 (d. 1H, J=8 Hz), 6 55 (d. 1H, J=8 Hz), 6 05 (d. 1H, J=8 Hz), 5 55 (s. 2H), 4.35 (s. 2H), and 4.3 (s. 2H) IR (CHCl₃, cmr¹) 1666, 1616, 1495, 1452, and 1422 MS (ES) m/e 463, 465

Elemental Analyses for C ₂₉ H ₂₃ N ₂ O ₄ Na:					
Calculated	C, 71 60.	H, 4 73.	N 5.76		
Found	C. 64 68;	H. 4 79;	N. 5 08		

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EXAMPLE 31

Preparation of {9-[(3-trifluoromethylphenyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid, sodium salt

[0302]

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A. 9-[(3-Trifluoromethylphenyl)methyl]-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one

[0303] 40% Methanolic Triton B (2 15 mL. 4 5 mM) was slowly added dropwise to a solution of 5-carbomelhoxy-1 2-dihydro-9H-carbazol-4(3H)-one (973 mg. 4 0 mM) in 10 mL of DMF at-10 °C. After 30 minutes. 3-(trifluoromethyl) benzyl chloride (1.53 g. 6 0 mM) and sodium iodide (900 mg. 6 0 mM) were added and the resultant mixture stirred at room temperature for 25 hours. The mixture was diluted with ethyl acetate, washed five times with H_2O , 1 N HCI. H_2O sat NaHCO3, and saturated brine, dried over anhydrous magnesium sulfate, filtered, concentrated, and dried *in vacuo*. The residue was purified by column chromatography on silica gel (elution with gradient methylene chloride/ethyl acetate) to afford 1 O2 g (63%) of the 9-[(3-trifluoromethylphenyl)methyl]-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one as a tan solid. 1 H NMR (CDCl3) 3 7.6 (d. 1H. J=8 Hz), 7.45-7.2 (m. 5H), 7.0 (d. 1H. J=8 Hz), 5.4 (s. 2H), 4.05 (s. 3H), 2.85 (t. 2H. J=6 Hz), 2.6 (t. 2H. J=6 Hz), and 2.2 (m. 2H). IR (KBr. cm⁻¹) 1727 and 1652. MS (ES) m/e 400, 402

Elemental Analyses for C ₂₂ H ₁₈ NO ₃ F ₃ :					
Calculated	C, 65.83	H. 4.52;	N. 3.49;	F 14.20	
Found	C, 65 63:	H, 4 58.	N. 3 39,	F. 14 14	

B 9-[(3-Trifluoromethylphenyl)methyl]-4-hydroxy-5-carbomethoxy carbazole

[0304] A solution of the 9-[(3-trifluoromethylphenyl)methyl]-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one (1.21 g. 3 00 mM) and 2,3-dichloro-5.6-dicyano-1.4-benzoquinone (764 mg. 3.3 mM) in 25 mL of toluene was stirred between 80-90 °C for 7 hours. The mixture was purified directly by column chromatography on silica gel (elution with methylene chloride) to afford 340.0 mg (26%) of the 9-[(3-trifluoromethylphenyl)methyl]-4-hydroxy-5-carbomethyoxy carbazole as a yellow solid. 1 H NMR (CDCl $_3$) δ 10.35 (s. 1H), 8.0 (d, 1H, J=8 Hz), 7.6-7.3 (m. 6H), 7.05 (d, 1H, J=8 Hz), 6.85 (m. 2H), 5.6 (s. 2H), and 4.1 (s, 3H). IR (CHCl $_3$, cm $^{-1}$) 3378 and 1712. MS (ES) m/s 398, 400.

Elemental Analyses for C ₂₂ H ₁₆ NO ₃ F ₃					
Calculated C. 66 17: H. 4.04: N, 3.51					
Found	C, 66.99;	H. 4.12;	N, 3.53 [.] F.		

C 9-[(3-Trifluoromethylphenyl)methyl]-4-hydroxy-5-carbamoyl carbazole

[0305] A solution of the 9-[(3-trifluoromethylphenyl)methyl]-4-hydroxy-5-carbomethoxy carbazole (250 mg. 0 625

mM) in 5 mL THF and 20 mL concentrated aqueous ammonium hydroxide was sonicated for 30 h at 40-50 °C. The mixture was diluted with ethyl acetat—and acidified to pH 1 with 5 N HCl. The aqueous layer was extracted three times with ethyl acetate. The combined organic extracts were washed with saturated brine, dried over magnesium sulfate. Intered, and concentrated. The residue was purified by column chromatography on silica gel (elution with gradient methylene chloride/ethyl acetate) to afford 120 mg (50%) of the 9-[(3-trifluoromethylphenyl)methyl]-4-hydroxy-5-carbamoyl carbazole as a white solid. ¹H NMR (DMSO-d6) δ 10 5 (s, 1H) 8 8 (br s, 1H), 8 4 (br s, 1H), 7.8 (d, 1H, J=8 Hz), 7.6-7 5 (m, 5H), 7.3 (t, 1H, J=8 Hz), 7 15 (d. 1H, J=8 Hz), 7 1 (d, 1H, J=8 Hz). 6.6 (d, 1H, J=8 Hz), and 5 8 (s, 2H). IR (KBr. cm⁻¹) 3429, 3206. and 1630 MS (ES) m/e 383, 385

Elemental Analyses for C ₂₁ H ₁₅ N ₂ O ₂ F ₃					
Calculated C, 65 62; H 3 93; N, 7 29					
Found	C. 67 50.	H, 4 00:	N. 7 19.		

D. {9-[(3-Trifluoromethylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid, methyl ester

[0306] 40% Methanolic Triton B (0.18 mL. 0.4 mM) was added to a solution of the 9-[(3-trifluoromethylphenyl)methyl]-4-hydroxy-5-carbamoyl carbazole (115 mg, 0.3 mM) in 5 mL DMF at room temperature. After 15 minutes, methyl bro-moacetate (95 mg, 0.6 mM) was added and the resultant mixture stirred at room temperature for 22 hours. The mixture was diluted with ethyl acetate, washed four times with H₂O, 1 N HCl, H₂O, sat. NaHCO₃, and saturated brine, dried over magnesium sulfate, filtered, and concentrated. The residue was purified by column chromatography on silical get (elution with ethyl acetate) to afford 120 mg (83%) of the [9-[(3-trifluoromethylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid. methyl ester as a white solid ¹H NMR (CDCl₃) & 7.5-7.2 (m, 7H), 7.1 (d, 1H, J=8 Hz), 7.0 (d, 1H, J=8 Hz), 6.6 (d. 1H, J=8 Hz), 6.4 (br.s. 1H), 6.0 (br.s. 1H), 5.55 (s, 2H), 4.9 (s. 2H), and 3.9 (s, 3H), IR (KBr, cm⁻¹), 1763 and 1673 MS (ES) m/e 457.

Elemental Analyses for C ₂₄ H ₁₉ N ₂ O ₄ F ₃ .			
Calculated	C, 63 16.	H, 4 20.	N, 6.14.
Found	C, 61 37,	H, 4 19	N, 5.77.

E {9-[(3-Trifluoromethylphenyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid. sodium salt

[0307] A solution of the [9-[(3-trifluoromethylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid, methyl ester (91 mg. 0.153 mM) and 0 22 mL (0 22 mM) of 1 N NaOH in 8 mL of ethanol was stirred for 17 h at 25 °C. The ethanol was removed *in vacuo*. The resultant white precipitate was collected by filtration, washed with small amounts of EtOH and diethyl ether, then dried *in vacuo* to afford 75 mg (81%) of the $\{9-[(3-trifluoromethylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid, sodium salt as a white powder. ¹H NMR (DMSO-d6) <math>\delta$ 7.65 (s, 1H), 7.6 (m, 4H), 7.45 (t, 1H, J=8 Hz), 7.35 (t, 1H, J=8 Hz), 7.3 (t, 1H, J=8 Hz), 7.2 (d, 1H, J=8 Hz), 7.1 (d, 1H, J=8 Hz), 7.05 (d, 1H, J=8 Hz), 6.5 (d, 1H, J=8 Hz), 5.75 (s, 2H), and 4.3 (s, 2H) IR (KBr, cm⁻¹) 1665 and 1618 MS (ES) m/e 441, 443

Elemental Analyses for C ₂₃ H ₁₆ N ₂ O ₄ F ₃ Na				
Calculated	C, 59 49:	H, 3.47	N, 6.03	
Found	C, 60 69.	H, 3.78	N, 5 75	

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Preparation of (9-[(1-naphthyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid. sodium salt

[0308]

25 A. 9-[(1-Naphthyl)methyl]-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one

[0309] 40% Methanolic Triton B (1 6 mL 3.6 mM) was slowly added dropwise to a solution of 5-carbomethoxy-1.2-dihydro-9H-carbazol-4(3H)-one (870 mg. 3.6 mM) in 30 mL of DMF at 25 °C. After 5 minutes. 1-chloromethyl naphthylene (642 mg. 3.6 mM) and sodium iodide (450 mg. 3.0 mM) were added and the resultant mixture stirred at room temperature for 25 hours. The mixture was diluted with ethyl acetate, washed five times with H_2O . 1 N HCI, H_2O . sat NaHCO3, and saturated brine, dried over anhydrous magnesium sulfate, filtered, concentrated, and dried in *vacuo* The residue was purified by column chromatography on silica gel (elution with ethyl acetate) to afford 560 mg (41%) of the 9- $\frac{1}{1000}$ (1-naphthyl)methyl]-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one as a yellow solid $\frac{1}{1000}$ NMR (CDCl3) $\frac{1}{1000}$ 88 0 (d. 1H, J=8 Hz), 7.9 (d, 1H, J=8 Hz), 7.7 (d. 1H, J=8 Hz), 7.6 (t, 1H, J=8 Hz), 7.55 (t. 1H J=8 Hz), 7.35 (d, 1H, J=8 Hz), 7.15-7 0.5 (m. 3H), 6.4 (d, 1H, J=8 Hz), 5.8 (s, 2H), 4.05 (s, 3H), 2.8 (t, 2H, J=6 Hz), 2.55 (t, 2H, J=6 Hz), and 2.2 (m. 2H) IR (KBr, cm⁻¹) 1721, 1646, 1464, 1448, 1438, 1285, 1122, 796, and 761. MS (ES) m/e 382, 384

Elemental Analyses for C ₂₅ H ₂₁ NO ₃ .			
Calculated	C. 78 33.	H, 5.48.	N, 3.66
Found	C. 76.28,	H, 5.46:	N, 3 93

B 9-[(1-Naphthyl)methyl]-4-hydroxy-5-carbomethoxy carbazole

[0310] A solution of the 9-[(1-naphthyl)methyl]-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one (540 mg, 1 4 mM) and 2.3-dichloro-5.6-dicyano-1,4-benzoquinone (304 mg, 1 33 mM) in 30 mL of toluene was stirred between 80-90 °C for 5 hours. The mixture was purified directly by column chromatography on silica gel (elution with ethyl acetate) to afford 240 0 mg (45%) of the 9-[(1-naphthyl)methyl]-4-hydroxy-5-carbomethyoxy carbazole as a yellow solid. ¹H NMR (DMSO-d6) δ 10.25 (s. 1H). 8 35 (d. 1H, J=8 Hz). 8.0 (d. 1H, J=8 Hz), 7 8 (d. 1H, J=8 Hz). 7 6-7 1 (m, 7H). 6.9 (d. 1H, J=8 Hz), 6.6 (d. 1H, J=8 Hz), 6 3 (d. 1H, J=8 Hz), 6 15 (s. 2H), and 3 8 (s. 3H) IR (CHCl₃, cm⁻¹) 1685, 1598, 1442. 1269, and 1140 MS (ES) m/e 380, 382

Elemental Analyses for C ₂₅ H ₁₉ NO ₃				
Calculated	C. 78.74.	H. 4 99,	N. 3 67	
	C, 78 67,			

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C. 9-[(1-Naphthyl)m thyl]-4-hydroxy-5-carbamoyl carbaz le

[0311] A solution of the 9-[(1-naphthyl)methyl]-4-hydroxy-5-carbomethoxy carbazole (210 mg, 0.55 mM) in 10 mL THF and 30 mL concentrated aqueous ammonium hydroxide was sonicated for 20 hours at 40-50 °C. The moture was diluted with ethyl acetate and acidified to pH 1 with 5 N HCl. The aqueous layer was extracted three times with ethyl acetate. The combined organic extracts were washed with saturated brine, dried over magnesium sulfate, filtered, and concentrated. The residue was purified by column chromatography on silica gel (elution with gradient hexanes/ethyl acetate) to afford 80 mg (40%) of the 9-[(1-naphthyl)methyl]-4-hydroxy-5-carbamoyl carbazole as a white solid ¹H NMR (DMSO-d6) δ 10.55 (s. 1H), 8.8 (br.s., 1H), 8.4 (br.s., 1H), 8.35 (d. 1H. J=8 Hz). 7.95 (d. 1H. J=8 Hz). 7.8 (d. 1H. J=8 Hz). 7.65 (m., 4H), 7.45 (m., 2H) 7.25 (t. 1H. J=8 Hz). 7.15 (t. 1H. J=8 Hz). 6.9 (d. 1H. J=8 Hz). 6.6 (d. 1H. J=8 Hz), and 6.2 (s. 2H) MS (ES) m/e 365, 367

D {9-[(1-Naphthyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid. methyl ester

[0312] 40% Methanolic Triton B (0 2 mL, 0.26 mM) was added to a solution of the 9-[(1-naphthyl)methyl]-4-hydroxy-5-carbamoyl carbazole (80 mg, 0.22 mM) in 7 mL DMF at room temperature. After 15 minutes, methyl bromoacetate (40 mg, 0.3 mM) was added and the resultant mixture stirred at room temperature for 3 hours. The mixture was diluted with ethyl acetate, washed twice with H₂O, and once with saturated brine, direct over magnesium sulfate, filtered, and concentrated. The residue was purified by column chromatography on silical gel (elution with ethyl acetate) to afford 81 mg (85%) of the {9-[(1-naphthyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid, methyl ester as a white solid. ¹H NMR (CDCl₃) δ 8.2 (d, 1H, J=8 Hz), 8.05 (d, 1H, J=8 Hz), 7 85-7 0 (m, 11H), 6.65 (d, 1H, J=6 Hz), 6 3 (d, 1H, J=8 Hz), 6 2 (s, 2H), 4 95 (s, 2H), and 3.8 (s, 3H) IR (KBr, cm⁻¹) 3364, 1739, 1630, 1582, 1500, 1455, 1285, 1232, 1153, and 774. MS (FD) m/e 438

Elemental Analyses for C ₂₇ H ₂₂ N ₂ O ₄					
Calculated C, 73 97: H, 5 02. N, 6 39					
Found	C. 71 66.	H, 5.14	N, 5.96.		

30 E. {9-[(1-Naphthyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid, sodium salt

[0313] A solution of the {9-{(1-naphthyl)methyl}-5-carbamoylcarbazol-4-yl}oxyacetic acid, methyl ester (21 mg, 0.048 mM) and 0.05 mL (0.05 mM) of 1 N NaOH in 5 mL of ethanol was stirred for 20 hours at 25 °C. The resultant white precipitate was collected by filtration washed with a small amount of EtOH, then dried in vacuo to afford 17 mg (80%) of the {9-{(1-naphthyl)methyl}-5-carbamoylcarbazol-4-yl}oxyacetic acid sodium salt as a white powder ¹H NMR (DM-SO-d6) δ 8 4 (d, 1H, J=8 Hz), 8.05 (d, 1H, J=8 Hz), 7 8 (d, 1H, J=8 Hz), 7 75-7.2 (m, 8H), 7 1 (d, 1H, J=8 Hz), 6 95 (d, 1H, J=8 Hz), 6 55 (d, 1H, J=8 Hz), 6 3 (d, 1H, J=8 Hz), 6 15 (s, 2H), and 4 4 (s, 2H) IR (KBr. cm²) 1664, 1615, 1595, 1455, 1408, 1324, 1275, and 775. MS (ES) m/e 423, 425.

Elemental Analyses for C ₂₆ H ₁₉ N ₂ O ₄ Na:				
Calculated	C, 69 96.	H, 4 26:	N 6 28.	
Found	C, 67 91	H, 4 24.	N, 5 76	

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Preparation of {9-[(2-cyanophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid sodium salt

[0314]

A 9-[(2-Cyanophenyl)methyl]-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one

[0315] 40% Methanolic Triton B (2 16 mL. 4 3 mM) was slowly added dropwise to a solution of 5-carbomethoxy-1 2-dihydro-9H-carbazol-4(3H)-one (973 mg. 4 0 mM) in 10 mL of DMF at 25 °C. After 10 minutes a-bromo-o-tolunitrile (1 0 g 5 0 mM) was added and the resultant mixture stirred at room temperature for 30 hours. The mixture was diluted with ethyl acetate washed five times with H₂O, 1 N HCI, H₂O, sat NaHCO₃, H₂O, and saturated brine, dried over anhydrous magnesium sulfate. Filtered, concentrated. The residue was triturated with diethyl ether and methylene chloride then dried *in vacuo* to afford 1 31 g (91%) of the 9-[(2-cyanophenyl)methyl]-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one as a tan solid. HNMR (CDCl₃) & 7.75 (dd, 1H, J=1 and 8 Hz). 7.5-7.2 (m. 5H), 6.6 (d. 1H, J=3 Hz). 5.55 (s, 2H), 4.05 (s. 3H), 2.95 (t. 2H, J=6 Hz), 2.6 (t, 2H, J=6 Hz), and 2.25 (m. 2H). IR (KBr, cm⁻¹). 2222, 1711. and 1650. MS (ES) m/e 357, 359

Elemental Analyses for C ₂₂ H ₁₈ N ₂ O ₃			
Calculated	C. 73 73	H. 5 06:	N. 7 82
	C. 73 62.		

40 B 9-[2-Cyanophenyl)methyl]-4-hydroxy-5-carbomethoxy carbazole

[0316] A solution of the 9-[(2-cyanophenyl)methyl]-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one (1 27 g, 3 5 mM) and 2.3-dichloro-5.6-dicyano-1 4-benzoquinone (892 mg, 3 85 mM) in 25 mL of toluene was stirred at reflux for 7 hours. The mixture was purified directly by column chromatography on silica gel (elution with methylene chloride) to afford 305 mg (24%) of the 9-[(2-cyanophenyl)methyl]-4-hydroxy-5-carbomethyoxy carbazole as a yellow solid 1 H NMR (CDCl₃) δ 10 35 (s 1H), 8 0 (d. 1H J=8 Hz), 7 75 (d, 1H, J=8 Hz), 7 5-7 2 (m. 5H) δ 85 (m. 2H), 6 6 (d. 1H J=8 Hz) 5 75 (s, 2H), and 4 1 (s. 3H) IR (CHCl₃, cm⁻¹) 3025, 2223, and 1686 MS (ES) m/e 355, 357

Elemental Analyses for C ₂₂ H ₁₆ N ₂ O ₃ .			
Calculated	C, 74 15	H. 4.53	N 786
Found	C, 72.99;	H, 4 41.	N. 7 65

C 9-[(2-Cyanophenyl)methyl]-4-hydroxy-5-carbamoyl carbazole

[0317] A solution of the 9-[(2-cyanophenyl)methyl]-4-hydroxy-5-carbornethoxy carbazol (295 mg, 0.83 mM) in 5 mL THF and 20 mL concentrated aqueous ammonium hydroxide was sonicated for 22 hours at 40-50 °C. The mixture was diluted with ethyl act atte and acidified to pH 1 with 5 N HCI. The aqueous layer was extracted three times with ethyl.

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ac tate. The combined organic xtracts wire washed with H_2O and saturated brine, dried ovir magnisium sulfatilitered, and concentrated. The residue was purified by column chromatography on silicagel (elution with gradient hexanes/ethyl acetate) to afford 140 mg (49%) of the 9-[(2-cyanophenyl)methyl]-4-hydroxy-5-carbamoyl carbazole as a tan solid. 1H NMR (DMSO-d6) δ 10.5 (s. 1H), 8.8 (br.s., 1H), 8.4 (br.s., 1H), 7.9 (d. 1H. J=8 Hz). 7.75 (d. 1H. J=8

Elemental Analyses for C ₂₁ H ₁₅ N ₃ O ₂ .			
Calculated	C, 73.89;	H, 4 43.	N, 12 31
Found	C, 73.39;	H, 4.56.	N. 13.32

D. {9-{(2-Cyanophenyl)methyl}-5-carbamoylcarbazol-4-yl}oxyacetic acid, methyl ester

[0318] 40% Methanolic Triton B (0.24 mL, 0.53 mM) was added to a solution of the 9-[(2-cyanophenyl)methyl]-4-hydroxy-5-carbamoyl carbazole (140 mg. 0 41 mM) in 5 mL DMF at room temperature. After 15 minutes, methyl bromoacetate (130 mg. 0 82 mM) was added and the resultant mixture stirred at room temperature for 24 hours. The mixture was diluted with ethyl acetate, washed four times with H₂O. 1 N HCl. H₂O, sat. NaHCO₃, and saturated brine, dried over magnesium sulfate, filtered, and concentrated. The residue was purified by column chromatography on silica gel (elution with gradient methylene chloride/ethyl acetate/THF) to afford 116 mg (68%) of the [9-[(2-cyanophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid. methyl ester as a white solid. H NMR (CDCl₃) δ 7 75 (d. 1H, J=8 Hz), 7.5-7 2 (m, 6H), 6 95 (d. 1H, J=8 Hz), 6.6 (d. 2H, J=8 Hz),), 6.3 (br s. 1H), 6 1 (br s. 1H), 5 75 (s. 2H), 4.9 (s. 2H), and 3 8 (s. 3H). IR (KBr, cm⁻¹) 2228, 1732, and 1675 MS (ES) m/e 412, 414.

Elemental Analyses for C ₂₄ H ₁₉ N ₃ O ₄			
Calculated	C. 69.72;	H 463	N, 10.16
Found	C, 70 00.	H. 4.69.	N, 10.32.

20 E {9-{(2-Cyanophenyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid, sodium salt

[0319] A suspension of the $\{9-\{(2-\text{cyanophenyl})\text{methyl}\}$ -5-carbamoylcarbazol-4-yl $\}$ oxyacetic acid, methyl ester (110 mg, 0.266 mM) and 0.29 mL (0.29 mM) of 1 N NaOH in 5 mL of ethanol was sonicated for 2 hours at 25 °C. The resultant white precipitate was collected by filtration, washed with small amounts of EtOH, diethyl ether, and hexanes, then dried in *vacuo* to afford 107 mg (95%) of the $\{9-\{(2-\text{cyanophenyl})\text{methyl}\}$ -5-carbamoylcarbazol-4-yl $\}$ oxyacetic acid, sodium salt as a white powder. ¹H NMR (DMSO-d6) δ 7 9 (d, 1H, J=8 Hz), 7 6 (br s, 1H), 7 5 (d, 1H, J=8 Hz), 7 45-7.4 (m, 3H) 7 35 (t, 1H, J=8 Hz), 7.25 (t, 1H, J=8 Hz), 7 1 (d, 1H, J=8 Hz), 7 05 (d, 1H, J=8 Hz) 6.55 (d, 1H, J=8 Hz), 6.4 (d, 1H, J=8 Hz), 5.8 (s, 2H), and 4 3 (s, 2H) IR (KBr, cm⁻¹) 2220, 1652, and 1613, MS (ES) m/e 398, 400

Elemental Analyses for C ₂₂ H ₁₆ N ₃ O ₄ Na.				
Calculated	C. 65.56;	H, 3 83.	N, 9 97	
Found	C, 65.61;	H, 3.71.	N, 9.89.	

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Preparation of (9-[(3-cyanophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid

[0320]

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A. 9-[(3-Cyanophenyl)methyl]-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one

[0321] A suspension of 5-carbomethoxy-1,2-dihydro-9H-carbazol-4(3H)-one (973 mg. 4 0 mM), a-bromo-m-tolunitrile (1 0 g. 4 9 mM). and potassium carbonate (553 mg, 4 0 mM) in 10 mL of DMF was stirred at 25 °C for 24 hours. The mixture was diluted with ethyl acetate, washed five times with H_2O . 1 N HCl. H_2O . sat NaHCO₃, H_2O , and saturated brine, dried over anhydrous magnesium sulfate, filtered, concentrated. The residue was dried in vacuo to afford 1 18 g (82%) of the 9-[(3-cyanophenyl)methyl]-5-carbomethoxy -1.2-dihydrocarbazol-4(3H)-one as a tan solid 1 H NMR (CDCl₃) δ 7 65-7 2 (m. 6H), 7 15 (d. 1H. J=9 Hz), 5.4 (s. 2H). 4.05 (s, 3H). 2 85 (t, 2H. J=6 Hz). 2 6 (t, 2H. J=6 Hz). and 2 25 (m. 2H) IR (KBr, cm⁻¹) 2226. 1729. and 1646 MS (ES) m/e 357. 359.

Elemental Analyses for C ₂₂ H ₁₈ N ₂ O ₃					
Calculated C. 73 73. H. 5 06. N. 7 82					
Found	C, 70 18,	H. 4 97:	N. 7 07.		

B 9-[(3-Cyanophenyl)methyl]-4-hydroxy-5-carbomethoxy carbazole

[0322] A solution of the 9-[(3-cyanophenyl)methyl]-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one (1.15 g. 3 2 mM) and 2,3-dichloro-5,6-dicyano-1.4-benzoquinone (815 mg, 3 52 mM) in 25 mL of toluene was stirred at reflux for 2 hours. The mixture was purified directly by column chromatography on silica gel (elution with methylene chloride) to afford 120 mg (10%) of the 9-[(3-cyanophenyl)methyl]-4-hydroxy-5-carbomethyoxy carbazole as a yellow solid ¹H NMR (CDCl₃) δ 10 35 (s. 1H), 8.0 (d, 1H, J=8 Hz), 7 6-7 2 (m, 7H), 6 85 (m, 2H), 5.55 (s, 2H), and 4 1 (s. 3H) IR (KBr, cm⁻¹) 3063 3025, 2234 and 1685 MS (ES) m/e 355, 357.

Elemental Analyses for C ₂₂ H ₁₆ N ₂ O ₃			
Calculated	C, 74 15,	H, 4 53:	N, 786
Found	C, 73 36:	H. 4 51.	N, 8 06.

55 C 9-[(3-Cyanophenyi)methyi]-4-hydroxy-5-carbamoyl carbazole

[0323] A solution of the 9-{(3-cyanophenyl)methyl]-4-hydroxy-5-carbometh xy carbazole (114 mg. 0 32 mM) in 5 mL THF and 20 mL concentrated aqueous ammonium hydroxid was sonicated for 7 hours at 40-50 °C. The mixture was

diluted with thyl acetat and acidified to pH 1 with 5 N HCl. The aqueous layer was extracted thrie times with thyl acetate. The combined organic extracts were washed with H_2O and saturated brine, dried over magnesium sulfate, filtered, and concentrated. The residue was purified by column chromatography on silical gel (elution with gradient hexanes/ethyl acetate) to afford 40 mg (49%) of the 9-[(3-cyanophenyl)methyl]-4-hydroxy-5-carbamoyl carbazole as a white solid ^{1}H NMR (DMSO-d6) δ 10 5 (s. 1H), 8 8 (br s. 1H), 8 4 (br s. 1H), 7.8 (d. 1H, J=8 Hz), 7 7 (d. 1H, J=8 Hz), 7 6 (s. 1H), 7.5-7.4 (m. 3H), 7 3 (t. 1H, J=8 Hz), 7 25 (d. 1H, J=8 Hz), 7.1 (d. 1H, J=8 Hz), 6 6 (d. 1H, J=8 Hz), and 5.75 (s. 2H) IR (KBr. cm⁻¹) 3430, 3347, 2231, 1628, and 1601 MS (ES) m/e 340, 342.

Elemental Analyses for C ₂₁ H ₁₅ N ₃ O ₂ .			
Calculated	C. 7389.	H, 4.43;	
Found	C 75.20:	H, 480;	

D {9-{(3-Cyanophenyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid, tert-butyl ester

[0324] 40% Methanolic Triton B (0.06 mL, 0.13 mM) was added to a solution of the 9-[(3-cyanophenyl)methyl]-4-hydroxy-5-carbamoyl carbazole (34.1 mg, 0.1 mM) in 5 mL DMF at room temperature. After 1 minute, tert-butyl bromoacetate (40 mg, 0.2 mM) was added and the resultant mixture stirred at room temperature for 24 h. The mixture was diluted with ethyl acetate, washed four times with H_2O , 1 N HCl, H_2O , sat NaHCO₃, and saturated brine, dried over magnesium sulfate, filtered, and concentrated. The residue was triturated with hexane to afford 51 mg (100%) of the (9-[(3-cyanophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid, tert-butyl ester as a white solid. H NMR (CDCl₃) δ 7.55 (d. 1H, J=8 Hz), 7.5-7.2 (m, 7H), 6.95 (d. 1H, J=8 Hz), 6.6 (d. 1H, J=8 Hz), 6.3 (br.s. 1H), 6.1 (br.s. 1H), 5.5 (s. 2H), 4.8 (s. 2H), and 1.5 (s. 9H). IR (KBr. cm⁻¹) 2228, 1748, and 1669 MS (ES) m/e 455, 456.

Elemental Analyses for C ₂₇ H ₂₅ N ₃ O ₄				
Calculated	C. 71.19:	H, 5 53.	N, 9.22.	
Found	C, 70.24;	H, 5 68.	N. 8 96.	

E [9-[(3-Cyanophenyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid

[0325] A solution of the {9-{(3-cyanophenyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid. tert-butyl ester (45 mg. 0.1 mM)) in 3 mL of trifluoroacetic acid was stirred at room temperature for 2 hours. The solvent was removed in vacuo. The residue was triturated with ethyl ether-hexanes, then dried in vacuo to afford 41 mg (100%) of the {9-{(2-cyanophenyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid as a tan powder ¹H NMR (DMSO-d6) δ 13 0 (br s. 1H). 7 6-7.3 (m. 10H), 7 1 (d, 1H, J=8 Hz). 6 65 (d, 1H, J=8 Hz), 5 8 (s, 2H), and 4 8 (s, 2H) IR (KBr. cm¹) 2226, 1733, and 1640 MS (ES) m/e 398, 400

Elemental Analyses for C ₂₃ H ₁₇ N ₃ O ₄				
Calculated	C, 69 17:	H, 4.29.	N, 10 52.	
Found	C, 66 96.	H, 4.37	N, 10 03.	

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Preparation of (9-[(2-methylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid. sodium salt

[0326]

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A 9-[(2-Methylphenyl)methyl]-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one

[0327] A suspension of 5-carbomethoxy-1.2-dihydro-9H-carbazol-4(3H)-one (870 mg, 3 58 mM), a-bromo-o-xytene (662 mg 3 58 mM) and potassium carbonate (500 mg, 3 61 mM) in 20 mL DMF was stirred at room temperature for 20 hours. The mixture was diluted with ethyl acetate, washed with H20 and saturated brine, dried over anhydrous magnesium sulfate. filtered. concentrated to afford 1.21 g (98%) of the 9-[(2-methylphenyl)methyl]-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one as a dark oil ¹H NMR (DMSO-d6) δ 7 5-7 2 (m, 4H), 7 15 (t. 1H, J=8 Hz), 7 0 (t, 1H. J=8 Hz), 6 15 (d. 1H J=8 Hz) 5 55 (s 2H), 3 85 (s. 3H), 2 6 (m, 2H), 2 4 (m, 2H), 2 4 (s. 3H), and 2 1 (m, 2H) IR (CHCl₃ cm⁻¹) 3010 2952, 1724, 1671 1653, 1604, 1460, 1444, 1290, 1174, and 1122 MS (ES) m/e 346 5

Elemental Analyses for C ₂₂ H ₂₁ NO ₃					
Calculated C, 76 08. H. 6 05. N, 4 03.					
Found	C, 73 33.	H. 6 36.	N 4 30		

B 9-[(2-Methylphenyl)methyl]-4-hydroxy-5-carbomethoxy carbazole

[0328] A solution of the 9-[(2-methylphenyl)methyl]-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one (1.2 g. 3 5 mM) and 2,3-dichloro-5.6-dicyano-1 4-benzoquinone (800 mg, 3 6 mM) in 70 mL of toluene was stirred at 80-90 °C for 5 hours. The mixture was purified directly by column chromatography on silica gel (elution with methylene chloride) to afford 260 mg (22%) of the 9-[(2-methylphenyl)methyl]-4-hydroxy-5-carbomethyoxy carbazole as a yellow solid ¹H NMR (DMSO-d6) δ 10 25 (s 1H), 7 5 (d 1H, J=8 Hz), 7 4 (t, 1H, J=8 Hz), 7 3-7 1 (m, 4H), 6 9 (m, 2H), 6.6 (d. 1H J=8 Hz) 6 1 (d 1H. J=8 Hz), 5 65 (s, 2H). 3.8 (s. 3H). and 2 5 (s, 3H) IR (KBr. cm⁻¹) 3200, 1672, 1440, 1426, 1332, 1302, 1265, 1216, 1141, 761, 749, and 718, MS (ES) m/e 344, 346.

Elemental Analyses for C ₂₂ H ₁₉ NO ₃ .			
Calculated	C. 76.52:	H, 5.51.	N, 4 06
Found	C 76 44:	H, 5.66,	N, 3 94

C 9-[(2-Methylphenyl)methyl]-4-hydroxy-5-carbamoyl carbazole

[0329] A solution of the 9-[(2-methylphenyl)methyl]-4-hydroxy-5-carbomethoxy carbazole (260 mg 0 75 mM) in 10 mL THF and 30 mL concentrated aqueous ammonium hydroxid was sonicated for 5 hours at 40-50 °C. The mixture was diluted with ethyl acetate and acidified to pH 1 with 5 N HCI. The aqueous layer was extracted three times with ethyl acetate. The combined organic extracts were washed with H₂O and saturated brine, dried over magnesium sulfate

filtered, and conc ntrated Th residu was purified by column chromatography on silica gel (lution with gradient hexanes/ thyl acetat) to afford 90 mg (36%) of the 9-{(2-methylphenyl)methyl]-4-hydroxy-5-carbamoyl carbazole as a tan solid 1 H NMR (DMSO-d6) δ 10 5 (s. 1H), 8 8 (br s, 1H), 8 4 (br s, 1H), 7 7 (m. 1H), 7.5 (m, 2H), 7 3 (m. 2H), 7.1 (t, 1H J=8 Hz), 6 95 (d. 1H, J=8 Hz), 6 95 (d. 1H, J=8 Hz), 6 85 (t, 1H, J=8 Hz), 6 6 (d. 1H, J=8 Hz), 5 95 (d. 1H, J=8 Hz), 5.7 (s. 2H), and 2.5 (s. 3H), IR (KBr, cm-1) 3451, 3191, 1627 1600, 1584, 1562, 1435, 1329, 1322 1263, and 774, MS (ES) m/e 329, 331

Elemental Analyses for C ₂₁ H ₁₈ N ₂ O ₂ :					
Calculated C, 76.36. H, 5 45: N, 8.48					
Found	C, 75.66,	H. 5 79;	N, 8.07.		

D {9-[(2-Methylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid. methyl ester

[0330] 40% Methanolic Triton B (0 45 mL, 0 99 mM) was added to a solution of the 9-[(2-methylphenyl)methyl]-4-hydroxy-5-carbamoyl carbazole (80 mg, 0 24 mM) in 8 mL DMF at room temperature. After 3 minutes, methyl bro-moacetate (115 mg, 0 72 mM) was added and the resultant mixture stirred at room temperature for 48 hours. The mixture was diluted with ethyl acetate, washed with H_2O , 1 N HCl, H_2O , and saturated brine, dried over magnesium sulfate, filtered, and concentrated. The residue was purified by column chromatography on silica gel (elution with ethyl acetate) to afford 80 mg (82%) of the $\{9$ -[(2-methylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid. methyl ester as a white solid. 1 H NMR (DMSO-d6) δ 7 56 (br s, 1H), 7.5-7.1 (m. 9H), 6 9 (t, 1H, J=8 Hz), 6 6 (d. 1H, J=8 Hz), 5 65 (s, 2H), 4 9 (s. 2H), 3.8 (s. 3H), and 2 5 (s, 3H), IR (KBr. cm⁻¹) 3367, 3153, 1760, 1740, 1672, 1644, 1619, 1591, 1578, 1498, 1456, 1425, 1327, 1200, 1153, 1109, 1100, and 777. MS (FD) m/e 402

Elemental Analyses for C ₂₄ H ₂₂ N ₂ O ₄				
Calculated	C, 71 64:	H 5.47,	N. 6.96	
Found	C, 71 51:	H. 5.56,	N. 6.67	

E {9-{(2-Methylphenyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid, sodium salt

[0331] A suspension of the [9-[(2-methylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid, methyl ester (15 5 mg. 0 039 mM) and 0.04 mL (0 04 mM) of 1 N NaOH in 5 mL of ethanot was stirred for 24 hours at 25 °C. The resultant white precipitate was collected by filtration, washed with a small amount of EtOH, then dried *in vacuo* to afford 10 mg (63%) of the [9-[(2-methylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid, sodium salt as a white powder. ¹H NMR (DMSO-d6) δ 7.55 (br s. 1H), 7.5-7 0 (m. 7H), 6 9 (d. 1H J=8 Hz), 6 35 (t, 1H, J=8 Hz), 6.6 (d. 1H, J=8 Hz), 6.2 (d. 1H, J=8 Hz), 5 6 (s. 2H), 4 35 (s, 2H), and 2 5 (s. 3H) IR (KBr, cm⁻¹) 3390, 1656, 1613, 1595, 1573, 1498, 1455, 1408, 1325, 1332, and 719. MS (ES) m/e 387, 389

Elemental Analyses for C ₂₃ H ₁₉ N ₂ O ₄				
Calculated	C. 67 32,	H, 4 63;	N, 6.83.	
	C, 64 72,			

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Preparation of {9-[(3-methylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid. sodium salt

[0332]

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A 9-[(3-Methylphenyl)methyl]-5-carbornethoxy-1 2-dihydrocarbazol-4(3H)-one

[0333] A suspension of 5-carbomethoxy-1,2-dihydro-9H-carbazol-4(3H)-one (670 mg. 3 58 mM), a-bromo-m-xylene (662 mg, 3 58 mM), and potassium carbonate (500 mg. 3 61 mM) in 20 mL DMF was stirred at room temperature for 16 hours. The mixture was diluted with ethyl acetate, washed with H₂O and saturated brine, dried over anhydrous magnesium sulfate, filtered, concentrated to afford 1 18 g (95%) of the 9-[(3-methylphenyl)methyl]-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one as a dark oil 1 H NMR (DMSO-d6) 5 7 65 (dd, 1H, J=1 and 8 Hz), 7 3-7 1 (m. 3H), 7 05 (d, 1H, J=8 Hz), 7 0 (s. 1H), 6 85 id. 1H, J=8 Hz), 5 5 (s. 2H), 3 8 (s. 3H), 3 0 (m. 2H) 2 45 (m. 2H), 2 3 (s. 3H), and 2.1 (m. 2H) IR (CHCl₃ cm⁻¹) 3010 2953, 1724, 1652, 1605, 1465, 1442, 1288, 1174, and 1119 MS (ES) m/e 348 5

Elemental Analyses for C ₂₂ H ₂₁ NO ₃ :			
Calculated	C 76 08.	H, 6 05:	N, 4 03.
Found	C 7453.	H, 6 03:	N. 368

B 9-[(3-Methylphenyl)methyl]-4-hydroxy-5-carbomethoxy carbazole

[0334] A solution of the 9-[(3-methylphenyl)methyl]-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one (1 18 g. 3 4 mM) and 2.3-dichloro-5.6-dicyano-1.4-benzoquinone (800 mg, 3.6 mM) in 70 mL of toluene was stirred at 80-90 °C for 6 hours. The mixture was purified directly by column chromatography on silica gel (elution with methylene chloride) to afford 300 mg (26%) of the 9-[(3-methylphenyl)methyl]-4-hydroxy-5-carbomethyoxy carbazole as a yellow solid 1 H NMR (DMSO-d6) δ 10 2 (s, 1H), 7 65 (d. 1H, J=8 Hz), 7 35 (t. 1H, J=8 Hz), 7 25 (t. 1H, J=8 Hz), 7 2-7 0 (m, 4H), 6 9 (m, 2H), 6 6 (d. 1H, J=8 Hz), 5 6 (s. 2H), 3 85 (s, 3H), and 2 2 (s, 3H), IR (KBr, cm⁻¹) 3200, 1673, 1596, 1440, 1426, 1394, 1265, 1216, 1152, 750, 711, and 694 MS (ES) m/e 344, 346

Elemental Analyses for C ₂₂ H ₁₉ NO ₃ .				
Calculated	C, 76 52:	H, 5 51;	N 406	
	C. 76.22.			

C. 9-[(3-Methylphenyl)methyl]-4-hydroxy-5-carbamoyl carbazole

[0335] A solution of the 9-[(3-methylphenyl)methyl]-4-hydroxy-5-carbomethoxy carbazole (300 mg, 0 87 mM) in 10 mL THF and 30 mL concentrated aqueous ammonium hydroxide was sonicated (r 5 h urs at 40-50 °C. The mixture was diluted with thyl acetate and acidified to pH 1 with 5 N HCI. The aqueous layer was extracted three times with

thyl ac tale The combined rganic extracts were washed with H_2O and saturated brine, dried over magn-sium sulfate, filtered, and concentrated. The residue was purified by column chromatography on silica gel (elution with gradient hexanes/ethyl acetate) to afford 114 mg (40%) of the 9-{(3-methylphenyl)methyl}-4-hydroxy-5-carbamoyl carbazole as an off-white solid. 1 HNMR (DMSO-d6) δ 10 5 (s. 1H), 8 8 (br s. 1H), 8.4 (br s. 1H), 7.8 (dd, 1H, J=1 and 8 Hz), 7.4 (m. 2H), 7.3 (t. 1H, J=8 Hz), 7.15-7.0 (m. 3H), 6.85 (d. 1H, J=8 Hz), 6.6 (d. 1H, J=8 Hz), 5.95 (d. 1H, J=8 Hz), 5.65 (s. 2H), and 2.25 (s. 3H). IR (KBr, cm⁻¹) 3434, 3203, 1629, 1599, 1579, 1552, 1443, 1330, 1262, 1214, and 776 MS (ES) m_1 e 329, 331

Elemental Analyses for C ₂₁ H ₁₈ N ₂ O ₂ .			
Calculated	C, 76.36;	H, 5 45;	N. 8.48.
Found	C. 77.56:	H, 5.67:	N. 8.26

D. {9-{(3-Methylphenyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid. methyl ester

[0336] 40% Methanolic Triton B (0.45 mL, 0.99 mM) was added to a solution of the 9-[(3-methylphenyl)methyl]-4-hydroxy-5-carbamoyl carbazole (100 mg, 0.30 mM) in 8 mL DMF at room temperature. After 3 minutes, methyl bromoacetate (115 mg, 0.72 mM) was added and the resultant moture stirred at room temperature for 24 hours. The mixture was diluted with ethyl acetate, washed with H₂O, and saturated brine, dried over magnesium sulfate, filtered, and concentrated. The residue was purified by column chromatography on silica gel (elution with ethyl acetate) to afford 80 mg (66%) of the {9-[(3-methylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid. methyl ester as a white solid. ¹H NMR (DMSO-d6) δ 7 6 (d, 1H, J=8 Hz), 7.55 (br s, 1H), 7.45-7 0 (m, 8H), 6.9 (d, 1H, J=8 Hz), 6.6 (d, 1H, J=8 Hz), 5.65 (s, 2H), 4.9 (s, 2H), 3.75 (s, 3H), and 2.2 (s, 3H). IR (KBr, cm⁻¹) 3367, 3157, 1760, 1642, 1589, 1499, 1455, 1424, 1328, 1216. 1151, 1102, 772, and 714. MS (FD) m/e 402.

Elemental Analyses for C ₂₄ H ₂₂ N ₂ O _{4:} '				
Calculated C, 71 64; H, 5.47; N, 6.96.				
Found	C, 71.01.	H, 5.60;	N, 6.66.	

E {9-{(3-Methylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid, sodium salt

[0337] A suspension of the $\{9-\{(3-methylphenyl)methyl]-5-carbamoylcarbazol-4-yl\}$ oxyacetic acid, methyl ester (15 8 mg, 0.039 mM) and 0.04 mL (0.04 mM) of 1 N NaOH in 5 mL of ethanol was stirred for 24 h at 25 °C. The resultant white precipitate was collected by filtration, washed with a small amount of EtOH, then dried *in vacuo* to afford 10 mg (62%) of the $\{9-\{(3-methylphenyl)methyl]-5-carbamoylcarbazol-4-yl\}$ oxyacetic acid, sodium salt as a white powder. ¹H NMR (DMSO-d6) δ 7.55 (d, 1H, J=8 Hz), 7.5-7.0 (m, 9H), 6.85 (d, 1H, J=8 Hz), 6.55 (d, 1H, J=8 Hz). 5.6 (s. 2H), 4.35 (s. 2H), and 2.2 (s. 3H). IR (KBr, cm⁻¹) 3390, 1656, 1613, 1595, 1573, 1498, 1455, 1408, 1325, 1332, and 719 MS (ES) m/e 387, 389.

Elemental Analyses for C ₂₃ H ₁₉ N ₂ O ₄ Na:					
Calculated C, 67 32; H, 4.63; N, 6.83.					
Found	C, 61.20;	H, 4.64;	N, 6.06.		

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Preparation of (9-[(3.5-dimethylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid. sodium salt

[0338]

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A 9-[(3,5-Dimethylphenyl)methyl]-5-carbomethoxy-1 2-dihydrocarbazol-4(3H)-one

[0339] A suspension of 5-carbornethoxy-1.2-dihydro-9H-carbazol-4(3H)-one (850 mg, 3.5 mM). 3.5-dimethylbenzyl bromide (765 mg, 3.8 mM). and potassium carbonate (500 mg, 3.61 mM) in 25 mL DMF was stirred at room temperature for 19 hours. The mixture was diluted with ethyl acetate, washed with $\rm H_2O$ and saturated brine, dried over anhydrous magnesium sulfate, filtered, concentrated. The residue was purified by column chromatography on silica get (elution with ethyl acetate) to afford 0.84 g (67%) of the 9-[(3,5-dimethylphenyl)methyl]-5-carbornethoxy-1,2-dihydrocarbazol-4(3H)-one as a foam. $^{1}\rm H$ NMR (DMSO-d6) δ 7.7 (dd, 1H, J=1 and 8 Hz), 7.3-7.2 (m, 2H), 6.9 (s, 1H), 6.75 (s, 2H), 5.45 (s, 2H), 3.6 (s, 3H), 3.0 (m, 2H), 2.45 (m, 2H), 2.2 (s, 6H), and 2.1 (m, 2H), IR (KBr. cm⁻¹) 1726, 1653, 1602, 1465, 1442, 1282, 1172, and 1116, MS (ES) m/e 362

Elemental Analyses for C ₂₅ H ₂₃ NO ₃				
Calculated	C, 76 45.	H. 6 37;	N. 3 88.	
Found	C, 76 82.	H. 6 54.	N, 3 91	

B 9-[(3,5-Dimethylphenyl)methyl]-4-hydroxy-5-carbomethoxy carbazole

[0340] A solution of the 9-[(3.5-dimethylphenyl)methyl]-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one (0 8 g, 2 2 mM) and 2.3-dichloro-5.6-dicyano-1.4-benzoquinone (550 mg, 2 43 mM) in 70 mL of toluene was stirred at 80-90 °C for 5 hours. The mixture was purified directly by column chromatography on silica gel (elution with methylene chloride) to afford 234 mg (29%) of the 9-[(3.5-dimethylphenyl)methyl]-4-hydroxy-5-carbomethyoxy carbazole as a yellow solid 1 H NMR (DMSO-d6) 5 10 2 (s, 1H) 7 65 (d, 1H, J=8 Hz), 7.35 (t, 1H, J=8 Hz), 7 25 (t, 1H, J=8 Hz), 7 15 (d, 1H, J=8 Hz), 7.05 (d, 1H, J=8 Hz), 6 9 (s, 1H) 6 7 (s, 2H), 6 6 (d, 1H, J=8 Hz), 5.6 (s, 2H), 3 85 (s, 3H), and 2 2 (s, 6H), IR (KBr, cm⁻¹) 3016, 1675, 1598, 1441, 1426, 1394, 1288, 1270, 1221, 1152, 754, and 713 MS (ES) m/e 358, 360

Elemental Analyses for C ₂₃ H ₂₁ NO ₃ .				
Calculated	C, 76.88 ⁻	H, 5 85	N, 3 90.	
Found	C. 76 94;	H. 6 00.	N, 3.93.	

C 9-[(3,5-Dimethylphenyl)methyl]-4-hydroxy-5-carbamoyl carbazole

[0341] A solution of the 9-[(3.5-dimethylphenyl)m thyl]-4-hydroxy-5-carbomethoxy carbazole (200 mg, 0.55 mM) in 10 mL THF and 30 mL concentrated aqueous ammonium hydroxide was sonicated for 4 days at 40-50 °C. The mixture

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was diluted with ethyl ac tate and addified to pH 2.5 with 5 N HCI. The aqueous layer was extracted thre—times with ethyl ac tate. The combined organic extracts were washed with saturated brine—dired over magnesium sulfate, filtered, and concentrated. The residue was punfied by column chromatography on silica gel (elution with gradient hexanes/ethyl acetate) to afford 90 mg (47%) of the 9-[(3.5-dimethylphenyl)methyl]-4-hydroxy-5-carbamoyl carbazole as an off-white solid. HNMR (DMSO-d6) δ 10.5 (s. 1H). 8.6 (s. 1H), 8.4 (s. 1H). 7.75 (d. 1H, J=8 Hz). 7.45 (m. 2H), 7.3 (t. 1H, J=8 Hz). 7.1 (d. 1H, J=8 Hz). 6.85 (s. 1H). 6.7 (s. 2H). 6.6 (d. 1H, J=8 Hz), 5.6 (s. 2H), and 2.2 (s. 6H). IR (KBr, cm⁻¹) 3417, 3198, 3113, 3063, 1631–1601, 1562, 1438, 1332, 1263, 1217, 781, and 773. MS (ES) m/e 343, 345

Elemental Analyses for C ₂₂ H ₂₀ N ₂ O ₂				
Calculated	C. 76 74.	H, 5.81	N, 8 14	
Found	C 76 97:	H, 5 94	N, 7 95.	

D {9-{(3.5-Dimethyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid, methyl ester

[0342] 40% Methanolic Triton B (0 13 mL. 0 28 mM) was added to a solution of the 9-[(3.5-dimethylphenyl)methyl]-4-hydroxy-5-carbamoyl carbazole (80 mg. 0 23 mM) in 8 mL DMF at room temperature. After 3 minutes, methyl bro-moacetate (43 mg. 0.28 mM) was added and the resultant mixture stirred at room temperature for 17 hours. The mixture was diluted with ethyl acetate, washed with H_2O and saturated brine, dried over magnesium sulfate filtered, and concentrated. The residue was purified by column chromatography on silica gel (elution with ethyl acetate) to afford 70 mg (72%) of the {9-[(3.5-dimethylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid, methyl ester as a white solid. 1 H NMR (DMSO-d6) δ 7.6 (d, 1H. J=8 Hz), 7.55 (br.s. 1H), 7.45-7.3 (m. 2H), 7.25 (d, 1H, J=8 Hz), 7.2 (br.s. 1H), 7.1 (d, 1H, J=8 Hz), 6.9 (s. 1H), 6.8 (s. 2H), 6.6 (d. 1H, J=8 Hz), 5.65 (s. 2H), 4.9 (s. 2H), 3.75 (s. 3H), and 2.2 (s. 6H) IR (KBr, cm⁻¹) 3362, 3173, 1758, 1638, 1583, 1500, 1454, 1434, 1330, 1215, 1151, 1106, 772, 715, and 706, MS (FD) m/e 417.

Elemental Analyses for C ₂₅ H ₂₄ N ₂ O ₄			
Calculated	C, 72 12;	H, 5 76,	N. 6.73
	C, 71.80;		

E. [9-[(3.5-Dimethylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid. sodium salt

[0343] A suspension of the {9-[(3,5-dimethylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid, methyl ester (18 mg. 0.043 mM) and 0.043 mL (0.043 mM) of 1 N NaOH in 5 mL of ethanol was stirred for 42 hours at 25 °C. The resultant white precipitate was collected by filtration, washed with a small amount of EtOH, then dried *in vacuo* to afford 12 mg (67%) of the {9-[(3,5-dimethylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid, sodium salt as a white powder. ¹H NMR (DMSO-d6) & 7 6 (d. 1H, J=8 Hz), 7.5-7 3 (m, 4H), 7 1 (m, 2H), 6 9 (s. 1H), 6 8 (s. 2H), 6.6 (d. 1H, J=8 Hz), 5.65 (s. 2H), 4 35 (s. 2H), and 2.2 (s. 6H). IR (KBr, cm⁻¹) 3385, 1663, 1616, 1575, 1498, 1456, 1412, and 1330. MS (ES) m/e 401, 403.

Elemental Analyses for C ₂₄ H ₂₁ N ₂ O ₄ Na:				
Calculated	C, 67 92.	H. 4 95,	N. 6 60	
Found	C, 66.53;	H. 5.06.	N, 6.37.	

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Preparation of [9-[(3-iodophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid, sodium salt

5 [0344]

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A 9-[(3-lodophenyl)methyl]-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one

[0345] A suspension of 5-carbomethoxy-1.2-dihydro-9H-carbazol-4(3H)-one (680 mg, 3.5 mM). 3-iodobenzyl bromide (1 2 g. 4 7 mM), and potassium carbonate (500 mg 3.61 mM) in 20 mt. DMF was stirred at room temperature for 18 hours. The mixture was diluted with ethyl acetate, washed with H₂O and saturated brine, dried over anhydrous magnesium sulfate, filtered, concentrated. The residue was purified trituration with methylene chloride-diethyl ether) to afford 0.70 g (55%) of the 9-[(3-iodophenyl)methyl]-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one as a white solid 1H NMR (DMSO-d6) 67 7-76 (m, 3H), 7.2 (m, 2H) 7.1 (t, 1H, J=8 Hz), 6 95 (d 1H, J=8Hz), 5 6 (s 2H) 3 8 (s. 3H) 30 (t. 2H, J=6 Hz) 25 (t. 2H, J=6 Hz) and 22 (m. 2H) IR (KBr, cm⁻¹) 1732 1639, 1441, 1421 1273, 1117, and 763 MS (ES) m/e 458, 460

Elemental Analyses for C ₂₁ H ₁₈ NO ₃ I				
Calculated	C. 54 90	H 3 92:	N. 3 05	
Found	C, 54 92;	H. 3 98.	N. 2 97	

B 9-[(3-lodophenyl)methyl]-4-hydroxy-5-carbomethoxy carbazole

[0346] A solution of the 9-[(3-iodophenyl)methyl]-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one (700 mg 1.52 mM) and 2,3-dichloro-5.6-dicyano-1 4-benzoquinone (380 mg. 1.67 mM) in 70 mL of toluene was stirred between 70-80 °C for 5 hours. The mixture was purified directly by column chromatography on silica gel (elution with methylene chloride) to afford 220 mg (31%) of the 9-[(3-iodophenyl)methyl]-4-hydroxy-5-carbomethyoxy carbazole as a yellow foam 1H NMR (DMSO-d6) à 10 25 (s 1H), 7 7 (d. 1H. J=8 Hz) 7.6 (m, 2H), 7 4 (t 1H. J=8 Hz), 7 25 (t. 1H J=8 Hz), 7 2 (d, 1H, J=8 Hz), 7 1 (m, 3H) 6 65 (d, 1H, J=8 Hz), 5.65 (s, 2H), and 3.8 (s, 3H), IR (KBr, cm⁻¹) 3377 (br), 3028. 1711 1672, 1621. 1580 1565 1495. 1459 1439. 1423, 1332. 1287. 1267, 1135 773. 752, 712. and 688 MS (ES) m/ e 456 458

Elemental Analyses for C ₂₁ H ₁₆ NO ₃ I				
Calculated C, 55 14 H, 3 50, N, 3 06.				
Found	C. 56 18.	H _. 3 87	N, 3 32.	

C 9-[(3-lodophenyl)methyl]-4-hydroxy-5-carbamoyl carbazole 55

[0347] A solution of the 9-[(3-iodophenyl)methyl]-4-hydroxy-5-carbomethoxy carbazole (170 mg. 0 37 mM) in 10 mL THF and 30 mL concentrated aqueous ammonium hydroxide was stirred vigorously at room temperature for 120 hours

The mixture was diluted with ethyl acetale and acidified t pH 2 with 5 N HCI. The aqueous layer was xtracted twice with ethyl acetale. The combined organic extracts were washed with saturated brine, dried over magnesium sulfate, filtered, and concentrated. The residue was purified by column chromatography on silica gel (elution with gradient methylene chloride/ethyl acetate) to afford 61 mg (37%) of the 9-[(3-iodophenyl)methyl]-4-hydroxy-5-carbamoyl carbazole as a white solid. H NMR (DMSO-d6) δ 10.5 (s. 1H), 8.8 (br. s. 1H), 8.4 (br. s. 1H), 7.8 (dd. 1H, J=1 and 9 Hz), 7.6-7.4 (m, 4H), 7.3 (t, 1H, J=8 Hz), 7.1-6.9 (m, 3H), 6.6 (d, 1H, J=8 Hz), and 5.7 (s. 2H). IR (CHCl₃ cm⁻¹) 3423, 3201 (br), 1630, 1600, 1579, 1564, 1445, 1330, 1261, and 775 MS (ES) m/e 441, 443

Elemental Analyses for C ₂₀ H ₁₅ N ₂ O ₂ I				
Calculated	C, 54 30.	H, 3.39,	N 6.33	
Found	C, 54 92:	H, 381.	N, 6 08	

D {9-{(3-lodophenyl)methyl}-5-carbamoylcarbazol-4-yl}oxyacetic acid, methyl ester

[0348] 40% Methanolic Triton B (0 07 mL, 0.15 mM) was added to a solution of the 9-[(3-iodophenyl)methyl]-4-hydroxy-5-carbamoyl carbazole (60 mg, 0 13 mM) in 8 mL DMF at room temperature. After 3 minutes, methyl bromoacetate (30 mg, 0 19 mM) was added and the resultant mixture stirred at room temperature for 17 hours. The mixture was diluted with ethyl acetate, washed with H₂O and saturated brine, dried over magnesium sulfate, filtered, and concentrated. The residue was purified by column chromatography on silica gel (elution with ethyl acetate) to afford 60 mg (86%) of the $\{9$ -[(3-iodophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid, methyl ester as a white solid. ¹H NMR (DMSO-d6) δ 7 6-7 0 (m. 11H) 6 6 (d, 1H, J=8 Hz), 5 7 (s, 2H), 4 9 (s, 2H), and 3 75 (s, 3H), IR (KBr. cm⁻¹) 3500–3350, 1727, 1642, 1291–1236, and 772. MS (ES) m/e 515

Elemental Analyses for C ₂₃ H ₁₉ N ₂ O ₄ I.				
Calculated	C, 53 70;	H. 3 70;	N 5 45	
	C, 53 92:			

E {9-{(3-lodophenyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid

[0349] A suspension of the {9-{(3-iodophenyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid, methyl ester (15 mg, 0.03 mM) and 0.03 mL (0.03 mM) of 1 N NaOH in 5 mL of ethanol was stirred for 43 hours at 25 °C, then cooled in an ice-bath. The resultant white precipitate was collected by filtration, washed with a small amount of EtOH, then dried in vacuo to afford 6.5 mg (43%) of the {9-{(3-iodophenyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid, sodium saft as a white powder ¹H NMR (DMSO-d6) & 7 6-7.0 (m, 11H), 6 6 (d, 1H, J=8 Hz), 5.7 (s, 2H), and 4.35 (s. 2H) IR (KBr, cm⁻¹) 3456, 3416, 3335, 1735, 1638, 1617, 1580, 1499, 1452, 1431, 1431, 1329, 1255, 1157, 772, 764, and 717 MS (ES) m/e 407, 409, 411

Elemental Analyses for C ₂₂ H ₁₆ N ₂ O ₄ INa,				
Calculated C 50.57: H, 3 07; N, 5 36				
Found	C, 49 57.	H, 2 93;	N, 5 06.	

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Preparation of {9-[(2-Chlorophenyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid

[0350]

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A 9-[(2-Chlorophenyl)methyl]-5-carbomethoxy-1 2-dihydrocarbazol-4(3H)-one

[0351] 40% Methanolic Triton B (2 42 mL 5.3 mM) was slowly added dropwise to a solution of 5-carbomethoxy-1,2-dihydro-9H-carbazol-4(3H)-one (873 7 mg, 3 59 mM) in 10 mL of DMF at 25 °C. After 5 minutes 2-chlorobenzyl bromide (1 11 g, 5.39 mM) was added and the resultant mixture stirred at room temperature for 72 hours. The mixture was diluted with ethyl acetate, washed five times with H₂O. once with saturated brine, direct over anhydrous magnesium sulfate. filtered and concentrated The residue was purified by crystallization from ethyl acetate to afford 706 3 mg (53%) of the 9-[(2-chlorophenyl)methyl]-5-carbomethoxy-1 2-dihydrocarbazol-4(3H)-one as a yellow solid ¹H NMR (DMSO-d6) & 7 6 (m, 2H), 7 4-7 1 (m, 4H), 6 5 (d, 1H, J=8 Hz), 5 6 (s, 2H), 3 8 (s, 3H), 2.9 (t, 2H, J=6 Hz), 2 4 (t, 2H, J=6 Hz), and 2 1 (m, 2H), IR (CHCl₃, cm⁻¹) 3050, 2950, 1725, 1655, 1462, 1446, 1435, 1288 and 1120, MS (ES) m/e 366, 370

Elemental Analyses for C ₂₁ H ₁₈ NO ₃ Cl					
	Calculated	C, 68 57	H, 4 93;	N. 381	
	Found	C. 68 52.	H, 5 18.	N. 3 67	

B 9-[(2-Chlorophenyl)methyl]-4-hydroxy-5-carbomethoxy carbazole

[0352] A solution of the 9-[(2-chlorophenyl)methyl]-5-carbornethoxy-1.2-dihydrocarbazol-4(3H)-one (692 2 mg. 1 88 mM) and 2 3-dichloro-5 6-dicyano-1.4-benzoquinone (529 mg. 2 32 mM) in 35 mL of toluene was stirred between 70-80 °C for 6 hours. The mixture was purified directly by column chromatography on silica gel (elution with methylene chloride) to afford 245 mg (35%) of the 9-[(2-chlorophenyl)methyl]-4-hydroxy-5-carbornethyoxy carbazole as a greenish solid. 1 H NMR (DMSO-d6) δ 10.3 (s. 1H), 7 6 (t. 2H, J=8 Hz), 7 4 (t. 1H, J=8 Hz), 7.3-7.1 (m. 4H), 6 9 (d. 1H, J=8 Hz), 6 6 (d. 1H, J=8 Hz), 6 3 (d. 1H, J=8 Hz), 5 65 (s. 2H), and 3 85 (s. 3H) IR (CHCl₃, cm⁻¹) 3200 (br), 1686, 1598, 1442, 1428, 1332, 1285, 1267, and 1141, MS (ES) m/e 364, 366, 368.

Elemental Analyses for C ₂₁ H ₁₆ NO ₃ CI				
Calculated	C. 68 95:	H, 4 41:	N, 3 83	
Found	C, 67 88.	H, 4.29;	N. 3 67	

C 9-[(2-Chlorophenyl)methyl]-4-hydroxy-5-carbamoyl carbazole

[0353] A solution of th 9-[(2-chlorophenyl)methyl]-4-hydroxy-5-carbomethoxy carbazole (238 mg, 0.43 mM) in 20 mL THF and 25 mL concentrated aqueous ammonium hydroxide was sonicated for 20 hours at 40-50 °C. The mixture was diluted with ethyl acetate and acidified to pH 1 with 5 N HCl. This aqueous layer was extracted twice with ethyl

acetate. The combined organic extracts were washed with saturated brine, dried ov. r magnesium sulfate. filtered, and concentrated. The residue was purified by column chromatography on silica gel (elution with gradient methylene chloride/ethyl acetate) to afford 86.9 mg (38%) of the 9-[(2-chlorophenyl)methyl]-4-hydroxy-5-carbamoyl carbazole as a white solid. H NMR (DMSO-d6) δ 10.5 (s. 1H), 8.8 (br.s., 1H), 8.4 (br.s., 1H), 7.7 (m., 1H), 7.55 (d. 1H, J=8 Hz), 7.45 (m., 2H), 7.3 (m., 2H), 7.15 (t. 1H, J=8 Hz), 6.95 (d. 1H, J=8 Hz), 6.6 (d., 1H, J=8 Hz), 6.2 (d. 1H, J=8 Hz), 5.75 (s., 2H) IR (CHCl₃, cm⁻¹) 3500–3400, 3200 (br), 1649, 1597, 1585, 1446, 1431, 1331, and 1269 MS (ES) m/e 349, 351, 353

Elemental Analyses for C ₂₀ H ₁₅ N ₂ O ₂ Cl					
Calculated	C, 68.48.	H, 4 31.	N, 7 99.		
Found	C, 68 05.	H. 4.33:	N. 7 19		

D. {9-{(2-Chlorophenyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid, tert-butyl ester

[0354] 40% Methanolic Triton B (0.15 mL, 0.34 mM) was added to a solution of the 9-[(2-chlorophenyl)methyl]-4-hydroxy-5-carbamoyl carbazole (80 mg, 0.23 mM) in 5 mL DMF at room temperature. After 3 minutes it-butyl bromoacetate (182 mg, 0.91 mM) was added and the resultant mixture stirred at room temperature for 72 hours. The mixture was diluted with ethyl acetate washed five times with H₂O, and saturated brine, dried over magnesium sulfate, filtered, and concentrated. The residue was purified by column chromatography on silica gel (elution with ethyl acetate) to afford 57 mg (53%) of the [9-[(2-chlorophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid. tert-butyl ester as a white solid. ¹H NMR (DMSO-d6) δ 7 6 (d. 1H, J=8 Hz), 7.5-6.9 (m, 9H), 6 55 (d. 1H, J=8 Hz), 6 35 (d. 1H, J=8 Hz). 5.7 (s. 2H), 4 75 (s. 2H), and 1 45 (s. 9H) IR (KBr, cm⁻¹) 1753 and 1678 MS (FD) m/e 464

Elemental Analyses for C ₂₆ H ₂₅ N ₂ O ₄ CI					
Calculated	C. 67.17.	H, 5 42;	N. 6 03		
Found	C. 64.02:	H, 5 33;	N. 5 77		

E. {9-[(2-Chlorophenyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid

[0355] A solution of the [9-[(2-chlorophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid. tert-butyl ester (46 mg, 0.1 mM) in 3 mL of trifluoroacetic acid was stirred at room temperature for 2 hours. The solvent was removed *in vacuo*. The residue was triturated with diethyl ether/hexanes, then dried in *vacuo* to afford 40 mg (98%) of the [9-[(2-chlorophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid as a white powder ¹H NMR (DMSO-d6) δ 12 9 (br s. 1H). 7 55 (s, 1H). 7 5 (d. 1H, J=8 Hz). 7 45 (s, 1H), 7 4-7.3 (m, 3H). 7 25 (t. 1H, J=8 Hz), 7.1-7 0 (m, 3H), 6.6 (d. 1H, J=8 Hz), 6.3 (d. 1H. J=8 Hz). 5 7 (s. 2H). and 4.8 (s, 2H). IR (KBr, cm⁻¹) 3430, 1735, and 1635. MS (ES) m/e 407, 409

Elemental Analyses for C ₂₂ H ₁₇ N ₂ O ₄ Cl					
Calculated	C, 64.63.	H, 4.19,	N, 6 85.		
Found	C, 64 60.	H 4.08,	N, 6.70		

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Preparation of (9-[(2 3-difluorophenyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid sodium salt

[0356]

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A 9-[(2.3-Difluorophenyl)methyl]-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one

[0357] A suspension of 5-carbomethoxy-1 2-dihydro-9H-carbazol-4(3H)-one (973 mg, 4 0 mM) a-bromo-2.3-diffuor-otoluene (1 01 g. 4 8 mM), and potassium carbonate (553 mg, 4 0 mM) in 10 mL DMF was stirred at room temperature for 73 hours. The mixture was diluted with ethyl acetate, washed with $\rm H_2O$, 1 N HCI. $\rm H_2O$, saturated NaHCO₃, $\rm H_2O$, and saturated brine, dried over anhydrous magnesium sulfate, filtered, concentrated. The residue was purified by column chromatography on silica gel (elution with methylene chloride/ethyl acetate) to afford 1 04 g (70%) of the 9-{ (2.3-diffuorophenyl)methyl]-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one as a tan solid. 1 H NMR (CDCl₃) δ 7 4 (d. 1H, J=8 Hz), 7 35 (d. 1H, J=8 Hz), 7 15-6 9 (m. 5H), 6 35 (t, 1H, J=8 Hz), 5 4 (s, 2H), 4 05 (s, 3H), 2 9 (t, 2H, J=6 Hz), 2 6 (t, 2H, J=6 Hz), and 2 25 (m. 2H), IR (KBr. cm-1), 1719 and 1650 MS (ES) m/e 368, 370

Elemental Analyses for C ₂₁ H ₁₇ NO ₃ F ₂					
Calculated	C 68.29	H. 4.64,	N. 379.		
Found	C. 68 50.	H. 4 62:	N 394		

40 B 9-[(2.3-Difluorophenyl)methyl]-4-hydroxy-5-carbomethoxy carbazole

[0358] A solution of the 9-[(2.3-difluorophenyl)methyl]-5-carbomethoxy-1 2-dihydrocarbazol-4(3H)-one (490 mg. 1 32 mM) and 2,3-dichloro-5,6-dicyano-1.4-benzoquinone (336 mg. 1.45 mM) in 70 mL of toluene was stirred at 80-90 °C for 2 25 hours. The mixture was purified directly by column chromatography on silica gel (elution with methylene chloride) to afford 165 mg (34%) of the 9-[(2,3-difluorophenyl)methyl]-4-hydroxy-5-carbomethyoxy carbazole as a yellow solid. H NMR (CDCl₃) δ 10 25 (s. 1H), 8 0 (d. 1H, J=8 Hz), 7 6 (d. 1H, J=8 Hz), 7 5-7 4 (m. 2H), 7 05 (m. 1H), 6.9 (d. 1H, J=8 Hz). 6.85 (d. 1H, J=8 Hz). 6.8 (m. 1H), 6.35 (t. 1H, J=8 Hz). 5 6 (s. 2H) and 4.1 (s. 3H) IR (KBr, cm⁻¹) 3025 and 1684 MS (ES) m/e 366, 368

Elemental Analyses for C ₂₁ H ₁₅ NO ₃ F ₂					
Calculated	C. 68 66	H, 4 12	N. 3.81		
Found	C, 69 54 ⁻	H. 4 44,	N, 3.81.		

55 C 9-[(2 3-Difluorophenyl)methyl]-4-hydroxy-5-carbamoyl carbazole

[0359] A solution of the 9-[(2,3-difluorophenyl)mothyl]-4-hydroxy-5-carbomethoxy carbazol (514 mg, 1 4 mM) in 5 mL THF and 20 mL concentrated aqueous ammonium hydroxide was stirred at room temperature for 94 hours. The

mixture was diluted with ethyl acetate and acidified to pH 1 with 5 N HCI. The aqueous layer was extracted three times with thyl acetate. The combined organic extracts were washed with H_2O and saturated brine dried over magnesium sulfate, filtered, and concentrated. The residue was purified by column chromatography on silicating gel (elution with gradient hexanes/ethyl acetate) to afford 320 mg (65%) of the 9-[(2,3-difluorophenyl)methyl]-4-hydroxy-5-carbamoyl carbazole as a yellow solid. H NMR (DMSO-d6) δ 10.45 (s, 1H), 8.8 (br.s., 1H), 8.4 (br.s., 1H), 7.8 (d. 1H, J=8 Hz), 7.5-7.2 (m, 4H), 7.05 (d. 1H, J=8 Hz), 6.95 (m. 1H), 6.6 (d. 1H, J=8 Hz), 6.35 (t. 1H, J=8 Hz), and 5.9 (s. 2H). IR (KBr. cm⁻¹) 3350, 3125, 1628, 1598, and 1583 MS (ES) m/e 351, 353

Elemental Analyses for C ₂₀ H ₁₄ N ₂ O ₂ F ₂					
Calculated	C. 68 18 ⁻	H, 4 01:	N. 7.95		
Found	C. 68.15,	H. 4 23.	N, 8 01		

D {9-{(2,3-Difluorophenyl)methyl}-5-carbamoylcarbazol-4-yl}oxyacetic acid methyl ester

[0360] 40% Methanolic Triton B (0 51 mL, 1 12 mM) was added to a solution of the 9-[(2,3-difluorophenyl)methyl]-4-hydroxy-5-carbamoyl carbazole (303 mg, 0 86 mM) in 5 mL DMF at room temperature. After 15 minutes, methyl bromoacetate (270 mg, 1.72 mM) was added and the resultant mixture stirred at room temperature for 15 hours. The mixture was diluted with ethyl acetate, washed with H₂O, 1 N HCl, H₂O, and saturated brine, dried over magnesium sulfate filtered, and concentrated. The residue was purified by column chromatography on silica gel (elution with ethyl acetate) to afford 295 mg (80%) of the {9-[(2,3-difluorophenyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid, methyl ester as a white solid. H NMR (CDCl₃) & 7 5-7.3 (m. 5H), 7 05 (d. 1H, J=8 Hz), 6.8 (m. 1H), 6.6 (d. 1H, J=8 Hz), 6.4 (t. 1H, J=8 Hz), 6.2 (br.s. 1H), 6.0 (br.s. 1H), 5.6 (s. 2H), 4.9 (s. 2H), and 3.3 (s. 3H). IR (KBr. cm⁻¹) 3432, 3180, 1774, 1766, and 1674. MS (ES) m/e 425

Elemental Analyses for C ₂₂ H ₁₈ N ₂ O ₄ F ₂				
Calculated	C 65 09.	H, 4 28:	N, 6 60	
Found	C 64 11	H, 4.12	N 6 32	

E {9-{(2.3-Difluorophenyl)methyl}-5-carbamoylcarbazol-4-yl}oxyacetic acid, sodium salt

[0361] A suspension of the $\{9-(2 3-\text{difluorophenyl})\text{methyl}\}$ -carbamoylcarbazol-4-yl $\}$ oxyacetic acid methyl ester (85 mg. 0.2 mM) and 0.22 mL (0 22 mM) of 1 N NaOH in 5 mL of ethanol was stirred for 18 hours at 25 °C. A small volume of diethyl ether/hexanes was added, then cooled in the refrigerator. The resultant white precipitate was collected by filtration, washed with a small amount of EtOH/diethyl ether/hexanes. Then dried *in vacuo* to afford 77 mg (89%) of the $\{9-(2,3-\text{difluorophenyl})\text{methyl}\}$ -5-carbamoylcarbazol-4-yl $\}$ oxyacetic acid, sodium salt as a white powder 1 H NMR (DMSO-d6) 6 7.7-7.2 (m, 6H) 7.2-7.0 (m, 3H), 6.6 (d, 1H, J=8 Hz), 6.45 (t, 1H, J=8 Hz), 5.7 (s, 2H), and 4.35 (s, 2H), IR (KBr, cm⁻¹) 3467, 3390, 1662, and 1616 MS (ES) m/e 409, 411, 433.

Elemental Analyses for C ₂₂ H ₁₅ N ₂ O ₄ F ₂ Na:					
Calculated	C, 61 12.	H. 3 50.	N. 6 48		
Found	C, 61 34:	H. 3.38.	N, 6.41.		

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Preparation of [9-[(2.6-difluorophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid sodium salt

[0362]

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A. 9-[(2,6-Difluorophenyl)methyl]-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one

[0363] A suspension of 5-carbomethoxy-1,2-dihydro-9H-carbazol-4(3H)-one (973 mg, 4 0 mM) a-bromo-2.6-difluor-otoluene (1.01 g, 4 8 mM). and potassium carbonate (553 mg, 4 0 mM) in 10 mL DMF was stirred at room temperature for 74 hours. The mixture was diluted with ethyl acetate, washed with $\rm H_2O$, 1 N HCI, $\rm H_2O$, saturated NaHCO₃, $\rm H_2O$, and saturated brine, dired over anhydrous magnesium sulfate, filtered, concentrated. The residue was purified by column chromatography on silica gel (elution with methylene chloride/ethyl acetate) to afford 1.04 g (70%) of the 9-[(2.6-difluorophenyl)methyl]-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one as a tan solid. H NMR (CDCl₃) δ 7.5 (d, 1H J=8 Hz), 7.35-7.2 (m, 3H) 6.95 (t. 2H, J=8 Hz), 5.4 (s. 2H), 4.0 (s. 3H), 3.05 (t. 2H J=6 Hz), 2.6 (t, 2H, J=6 Hz), and 2.25 (m, 2H). IR (KBr. cm⁻¹) 1728 and 1655 MS (ES) m/e 370

Elemental Analyses for C ₂₁ H ₁₇ NO ₃ F ₂ :					
Calculated	C. 68 29;	H, 4 64:	N, 3 79.		
Found	C. 68 51,	H. 482	N. 378		

B. 9-[(2.6-Difluorophenyl)methyl]-4-hydroxy-5-carbomethoxy carbazole

[0364] A 60% oil dispersion of sodium hydride (257 mg, 6 42 mM) was added to a solution of the 9-[(2.6-difluorophenyl)methyl]-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one (1 03 g, 2 79 mM) in 7 mL of dioxane at room temperature After 5 minutes methyl benzenesulfinate (0 6 mL, 4 46 mM) was added and the mixture stirred at room temperature for 1.75 hours. The mixture was diluted with 10 mL dioxane, then glacial acetic acid (0 37 mL, 6 42 mM) was added. The resultant mixture was refluxed for 45 min, cooled to room temperature, diluted with ethyl acetate, washed three times with saturated NaHCO₃, and saturated brine, dried over anhydrous magnesium sulfate, filtered and concentrated The residue was purified by column chromatography on silica gel (elution with toluene) to afford 480 mg (47%) of the 9-[(2,6-difluorophenyl)methyl]-4-hydroxy-5-carbomethyoxy carbazole as a yellow solid ¹H NMR (CDCl₃)⁻ δ 10 15 (s, 1H), 7.95 (d, 1H, J=8 Hz), 7.5 (d, 1H, J=8 Hz), 7.5-7.0 (m. 4H), 6.9-6 8 (m, 3H), 5 6 (s, 2H), and 4 1 (s, 3H) IR (KBr, cm⁻¹) 3040 and 1682 MS (ES) m/e 366, 368

Elemental Analyses for C ₂₁ H ₁₅ NO ₃ F ₂					
Calculated	C. 68 66.	H. 4 12:	N. 3.81.		
Found	C, 69 48	H, 4 07	N. 4.11		

C. 9-[(2.6-Difluorophenyl)methyl]-4-hydr xy-5-carbamoyl carbazole

[0365] A solution of the 9-[(2,6-difluorophenyl)methyl]-4-hydroxy-5-carbomethoxy carbazole (514 mg, 1 4 mM) in 5 mL THF and 20 mL concentrated aqueous ammonium hydroxide was stirred at room temperature for 64 hours. The pH was adjusted to 10.5 with 5 N HCl. The resultant precipitate was collected by filtration, resuspended in H_2O , adjusted the pH to 11 7 with concentrated ammonium hydroxide. The resultant precipitate was collected by filtration. The precipitate was dissolved in ethyl acetate, washed three times with 5 N NaOH, H_2O , and saturated brine, dried over anhydrous magnesium sulfate, filtered, concentrated to afford 310 mg (70%) of the 9-[(2.6-difluorophenyl)methyl]-4-hydroxy-5-carbamoyl carbazole as a yellow solid ¹H NMR (DMSO-d6) δ 10.4 (s, 1H), 8 8 (br s, 1H), 8 4 (br s, 1H), 7 8 (d, 1H, J=8 Hz), 7 6-7 0 (m, 7H), 6 6 (d, 1H, J=8 Hz), and 5 7 (s, 2H) IR (KBr cm⁻¹) 3404, 3113, 1626, and 1587 MS (ES) m/e 351, 353

Elemental Analyses for C ₂₀ H ₁₄ N ₂ O ₂ F ₂				
Calculated	C, 68.18.	H, 4.01°	N 7 95	
Found	C, 68.45.	H, 4 01,	N, 7 87.	

D. {9-{(2,6-Difluorophenyl)methyl}-5-carbamoylcarbazol-4-yl]oxyacetic acid. methyl ester

[0366] 40% Methanolic Triton B (0 49 mL, 1 07 mM) was added to a solution of the 9-[(2.6-difluorophenyl)methyl]-4-hydroxy-5-carbamoyl carbazole (290 mg, 0 82 mM) in 5 mL DMF at room temperature. After 15 minutes, methyl bromoacetate (259 mg, 1 65 mM) was added and the resultant mixture stirred at room temperature for 24 hours. The mixture was diluted with H₂O and the resultant white precipitate collected by filtration, triturated with diethyl etheric hexanes, and dried in vacuo to afford 228 mg (65%) of the {9-[(2.6-difluorophenyl)methyl]-5-carbamoylcarbazol-4-yl] oxyacetic acid, methyl ester as a white solid ¹H NMR (CDCl₃) & 7 65 (d. 1H, J=8 Hz), 7 45-7.2 (m. 5H), 6 85 (t. 2H, J=8 Hz), 6.55 (d. 1H, J=8 Hz), 6 3 (br.s. 1H), 6.0 (br.s. 1H), 5 5 (s. 2H), 4.9 (s. 2H), and 3 8 (s. 3H). IR (KBr, cm⁻¹) 3432, 3170, 1762, and 1675, MS (ES) m/e 425

Elemental Analyses for C ₂₃ H ₁₈ N ₂ O ₄ F ₂ :				
Calculated	C. 65 09.	H, 4 28.	N. 6 60	
Found	C, 65 05.	H, 4 40:	N, 6.53.	

E {9-{(2,6-Difluorophenyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid, sodium salt

[0367] A suspension of the {9-[(2.6-diffuorophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid, methyl ester (85 mg. 0.2 mM) and 0.22 mL (0.22 mM) of 1 N NaOH in 5 mL of ethanol was stirred for 18 hours at 25 °C. A small volume of diethyl ether/hexanes was added, then cooled in the refrigerator. The resultant white precipitate was collected by filtration, washed with a small amount of EtOH/diethyl ether/hexanes, then dried in *vacuo* to afford 82 mg (95%) of the {9-[(2,6-diffuorophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid, sodium salt as a white powder 1H NMR (DMSO-d6) & 7.6 (d, 1H, J=8 Hz), 7.55 (br.s., 1H), 7.45-7.3 (m, 3H), 7.25 (t. 1H, J=8 Hz), 7.1-7.0 (m, 4H), 6.5 (d, 1H, J=8 Hz), 5.65 (s, 2H), and 4.3 (s, 2H). IR (KBr, cm-1) 3470, 3360, 1658, and 1606. MS (ES) m/e 409, 411, 433

Elemental Analyses for C ₂₂ H ₁₅ N ₂ O ₄ F2Na.				
Calculated	C, 61 12 ⁻	H, 3 50	N, 6 48	
Found	C. 59 18:	H. 3 70:	N. 6 19.	

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EXAMPLE 42

Preparation of [9-[(2.6-dichlorophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid sodium salt

[0368]

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A 9-[(2,6-Dichlorophenyl)methyl]-5-carbomethoxy-1 2-dihydrocarbazol-4(3H)-one

[0369] A suspension of 5-carbornethoxy-1.2-dihydro-9H-carbazol-4(3H)-one (973 mg. 4 0 mM), a-bromo-2.6-dichlorotoluene (1.19 g, 4.8 mM), and potassium carbonate (553 mg. 4.0 mM) in 10 mL DMF was stirred at room temperature for 24 hours. The mixture was diluted with ethyl acetate, washed with $\rm H_2O$. 1 N HCl. $\rm H_2O$, saturated NaHCO₃. $\rm H_2O$, and saturated brine, dried over anhydrous magnesium sulfate, filtered, concentrated. The residue was purified by column chromatography on silica gel (elution with methylene chloride/ethyl acetate) to afford 900 mg (56%) of the 9-(2.6-dichlorophenyl)methyl]-5-carbornethoxy-1 2-dihydrocarbazol-4(3H)-one as a white foam ¹H NMR (CDCl₃) δ 7 4-7 2 (m, 6H), 5 6 (s, 2H), 4.0 (s, 3H), 2.9 (t, 2H, J=6 Hz), 2.55 (t, 2H, J=6 Hz), and 2.2 (m, 2H) IR (KBr. cm⁻¹) 1725 and 1652 MS (ES) m/e 400, 402, 404.

Elemental Analyses for C ₂₁ H ₁₇ NO ₃ Cl ₂				
Calculated	C, 62 70:	H, 4 26.	N. 3 48	
Found	C, 62 98;	H, 4 35;	N, 3.35	

B. 9-[(2,6-Dichlorophenyl)methyl]-4-hydroxy-5-carbomethoxy carbazole

[0370] A solution of the 9-{(2.6-dichlorophenyl)methyl]-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one (861 mg, 2.14 mM) and 2.3-dichloro-5 6-dicyano-1 4-benzoquinone (595 mg. 2 57 mM) in 60 mL of toluene was stirred at reflux for 3 5 hours. The mixture was purified directly by column chromatography on silica gel (elution with methylene chloride) to afford 255 mg (29%) of the 9-{(2.6-dichlorophenyl)methyl]-4-hydroxy-5-carbomethyoxy carbazole as a yellow solid ¹H NMR (CDCl₃) δ 10.05 (s, 1H) 7.95 (d, 1H. J=8 Hz). 7 6 (d, 1H. J=8 Hz). 7 45-7 2 (m. 5H) 6 95 (d. 1H. J=8 Hz). 6 8 (d. 1H. J=8 Hz). 5.75 (s, 2H), and 4.1 (s. 3H). IR (KBr. cm⁻¹) 3430 and 1666. MS (ES) m/e 409, 411.

Elemental Analyses for C ₂₁ H ₁₅ NO ₃ Cl ₂				
Calculated	C 63 02.	H, 3 78.	N, 3.50	
Found	C. 63.78;			

C. 9-{(2.6-Dichlorophenyl)methyl]-4-hydroxy-5-carbamoyl carbazole

[0371] A solution of the 9-{(2.6-dichlorophenyl)methyl]-4-hydroxy-5-carbomethoxy carbazole (240 mg. 0.6 mM) in 5 mL THF and 20 mL concentrated aqueous ammonium hydroxide was stirred at room temperature for 22 hours. The resultant precipitate was collected by filtration and dried *in vacuo* to afford 151 mg (65%) of the 9-{(2.6-dichlorophenyl) methyl]-4-hydroxy-5-carbamoyl carbazole as a yellow solid ¹H NMR (DMSO-d6) δ 10 35 (s 1H), 8 8 (br s. 1H), 8 4 (br s. 1H) 7 7 (d 1H. J=8 Hz), 7.6-7 3 (m. 5H), 7 25 (t, 1H J=8 Hz), 6 85 (d, 1H. J=8 Hz), 6.55 (d. 1H, J=8 Hz), and

5 85 (s. 2H) IR (KBr, cm⁻¹) 3429, 1631, and 1597 MS (ES) m/e 385, 387

Elemental Analyses for C ₂₀ H ₁₄ N ₂ O ₂ Cl ₂				
Calculated	C. 62 35,	H. 3.66.	N 7 27.	
Found	C, 62 87.	H 3.99:	N, 6.00	

D {9-[(2.6-Dichlorophenyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid. methyl ester

[0372] 40% Methanolic Triton B (0 23 mL, 0 49 mM) was added to a solution of the 9-[(2,6-dichlorophenyl)methyl]-4-hydroxy-5-carbamoyl carbazole (146 mg 0 38 mM) in 5 mL DMF at room temperature. After 15 minutes, methyl bromoacetate (119 mg, 0 76 mM) was added and the resultant mixture stirred at room temperature for 17 hours. The mixture was diluted with ethyl acetate, washed with H₂O 1 N HCl, H₂O, sat NaHCO₃, and saturated brine, dried over magnesium sulfate, filtered, and concentrated. The residue was purified by column chromatography on silica gel (elution with ethyl acetate) to afford 83 mg (48%) of the [9-[(2,6-dichlorophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid. methyl ester as a tan solid. ¹H NMR (DMSO-d6) & 7 5-7 0 (m, 10H), 6.55 (d. 1 H, J=8 Hz), 5 8 (s. 2 H), 4 9 (s. 2 H), and 3 75 (s. 3 H) IR (KBr. cm⁻¹). MS (ES) m/e 457, 459

E [9-[(2.6-Dichlorophenyl)methyl]-5-carbamoylcarbazol-4-yljoxyacetic acid, sodium salt

[0373] A suspension of the {9-{(2.6-dichlorophenyi)methyl]-5-carbamoylcarbazoi-4-yl]oxyacetic acid. methyl ester (45 7 mg, 0 1 mM) and 0 11 mL (0 11 mM) of 1 N NaOH in 5 mL of ethanol was stirred for 22 hours at 25 °C. A small volume of diethyl ether/hexanes was added, then cooled in the refrigerator. The resultant white precipitate was collected by filtration, washed with a small amount of EtoH/diethyl ether/hexanes. then dried *in vacuo* to afford 40 mg (86%) of the {9-{(2.6-dichlorophenyi)methyl]-5-carbamoylcarbazoi-4-yl]oxyacetic acid, sodium salt as a white powder. ¹H NMR (DMSO-d6) δ 7 6-7 4 (m. 6H), 7.3 (t. 1H, J=8 Hz), 7 2 (t. 1H, J=8 Hz), 7 0 (d. 1H, J=8 Hz), 6.9 (t, 1H, J=8 Hz), 6.5 (d. 1H, J=8 Hz). 5.8 (s, 2H), and 4.25 (s, 2H). MS (ES) m/e 441, 443, 445.

EXAMPLE 43

Preparation of {9-[(3-trifluoromethoxyphenyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid. sodium salt

[0374]

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A. 9-[(3-Trifluoromethoxyphenyl)methyl]-5-carbomethoxy-1 2-dihydrocarbazol-4(3H)-one

[0375] A suspension of 5-carbomethoxy-1 2-dihydro-9H-carbazol-4(3H)-one (935 mg, 3.65 mM), 3-trifluoromethoxy-benzyl bromide (1.0 g, 3.93 mM), and potassium carbonate (531 mg, 3.85 mM) in 20 mL DMF was stirred at room temperature for 17 hours. The mixtur—was diluted with ethyl ac tate, washed with H₂O and saturated brine, dried over anhydrous magnesium sullate, filtered concentrated to afford 1.6 g (100%) of the 9-{(3-trifluoromethoxyphenyl)methyl}-

5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one as a foam ^{1}H NMR (DMSO-d6) δ 7 7 (dd. 1H, J=1 and 8 Hz), 7 45 (t, 1H, J=8 Hz), 7 3-7 1 (m 4H), 7 05 (d 1H J=8 Hz), 5 6 (s, 2H), 3 8 (s, 3H), 3 0 (m, 2H), 2 45 (m, 2H), and 2.1 (m, 2H) IR (CHCl₃, cm⁻¹) 1729 1647 1439, 1259, 1176, and 1116 MS (ES) m/e 418

Elemental Analyses for C ₂₂ H ₁₈ NO ₄ F ₃ :				
Calculated	C 63 31:	H. 4 32;	N. 3 36.	
Found	C. 63 12:	H. 4 35:	N. 3 31	

B. 9-[(3-Trifluoromethoxyphenyl)methyl]-4-hydroxy-5-carbomethoxy carbazole

[0376] A solution of the 9-[(3-trifluoromethoxyphenyl)methyl]-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one (0.75 g. 1.8 mM) and 2.3-dichloro-5.6-dicyano-1.4-benzoquinone (490 mg. 2.16 mM) in 70 mL of toluene was stirred at reflux for 6 hours. The mixture was purified directly by column chromatography on silica gel (elution with methylene chloride) to afford 300 mg (40%) of the 9-[(3-trifluoromethoxyphenyl)methyl]-4-hydroxy-5-carbomethyoxy carbazole as a yellow solid. 1 H NMR (DMSO-d6) δ 10.25 (s. 1H), 7.7 (d. 1H, J=8 Hz), 7.5-7.0 (m, 8H), 6.6 (d, 1H, J=8 Hz), 5.7 (s, 2H) and 3.85 (s. 3H), IR (KBr cm⁻¹) 3200, 1673, 1441, 1268, 1217, 1173, and 753. MS (ES) m/e 414, 416.

Elemental Analyses for C ₂₂ H ₁₆ NO ₃ F ₃				
Calculated	C, 63.61;	H 386.	N, 3.37	
Found	C. 63 40.	H 3 99:	N. 3.43	

C 9-[(3-Trifluoromethoxyphenyl)methyl]-4-hydroxy-5-carbamoyl carbazole

[0377] A solution of the 9-[(3-trifluoromethoxyphenyl)methyl]-4-hydroxy-5-carbomethoxy carbazole (260 mg. 0 62 mM) in 10 mL THF and 30 mL concentrated aqueous ammonium hydroxide was stirred vigorously for 132 hours. The mixture was diluted with ethyl acetate and acidified to pH 1 with 5 N HCl. The aqueous layer was extracted three times with ethyl acetate. The combined organic extracts were washed with H₂O and saturated brine, dried over magnesium sulfate, filtered, and concentrated. The residue was purified by column chromatography on silica gel (elution with gradient hexanes/ethyl acetate) to afford 150 mg (60%) of the 9-[(3-trifluoromethoxyphenyl)methyl]-4-hydroxy-5-carbamoyl carbazole as an off-white solid ¹H NMR (DMSO-d6) δ 10 5 (s. 1H), 8 8 (br s. 1H), 8 4 (br s. 1H), 7 85 (dd. 1H, J=1 and 8 Hz), 7 5-7.15 (m. 5H), 7 1 (d. 1H, J=8 Hz), 7 0 (d. 1H, J=8 Hz), 6 6 (d. 1H, J=8 Hz), 5 95 (d. 1H J=8 Hz), and 5 65 (s. 2H) IR (KBr cm⁻¹) 3431, 3203, 1629, 1601, 1580, 1548, 1446, 1330, 1261, 1215, and 777 MS (ES) m/e 399, 401

Elemental Analyses for C ₂₁ H ₁₅ N ₂ O ₂ F ₃				
Calculated	C, 63.00.	H, 3 75.	N, 7 0.	
Found	C. 63.15.	H. 4 07.	N, 6.84	

D {9-{(3-Trifluoromethoxyphenyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid. methyl ester

[0378] 40% Methanolic Triton B (0.15 mL, 0.34 mM) was added to a solution of the 9-[(3-trifluoromethoxyphenyl) methyl]-4-hydroxy-5-carbamoyl carbazole (115 mg, 0.28 mM) in 8 mL DMF at room temperature. After 3 minutes methyl bromoacetate (65 mg, 0.41 mM) was added and the resultant mixture stirred at room temperature for 23 hours. The mixture was diluted with ethyl acetate, washed with H₂O, and saturated brine, dried over magnesium sulfate, filtered, and concentrated. The residue was purified by column chromatography on silica gel (elution with ethyl acetate) to afford 112 mg (63%) of the {9-[(3-trifluoromethoxyphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid, methyl ester as a white solid ¹H NMR (DMSO-σ6) δ 7 6 (d, 1H, J=8 Hz), 7 55 (br s, 1H), 7 5-7.0 (m, 9H), 6 6 (d, 1H, J=8 Hz), 5 7 (s, 2H), 4 9 (s, 2H), and 3 75 (s, 3H), IR (KBr, cm⁻¹) 3483, 3141, 1763, 1674, 1501, 1444, 1269, 1215, 1178, 1102, 772, and 714 MS (FD) m/e 472

Elemental Analyses for C ₂₄ H ₁₉ N ₂ O ₅ F ₃				
Calculated	C, 61 02.	H, 4 03.	N, 5 93.	
	C, 61 05.			

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E (9-[(3-Triflu_romethoxyphenyl)methyl]-5-carbamoylcarbaz_l-4-yl}oxyacetic acid, sodium salt

[0379] A suspension of the {9-[(3-trifluoromethoxyphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid, methyl ester (22.4 mg. 0.047 mM) and 0.065 mL (0.065 mM) of 1 N NaOH in 5 mL of ethanol was stirred for 24 hours at 25 °C. The solvent was removed in *vacuo* and the residue suspended in EtOH. The resultant white precipitate was collected by filtration, washed with a small amount of EtOH, then dried *in vacuo* to afford 9 mg (41%) of the {9-[(3-trifluoromethoxyphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid, sodium salt as a white powder MS (ES) m/e 457, 459.

EXAMPLE 44 Preparation of {9-{(2-biphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid

[0380]

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A 2-Carbomethoxy-6-nitro-2'-methoxy-biphenyl

[0381] A solution of methyl 2-chloro-3-nitrobenzoate (2.16 g. 10.0 mM), 2-methoxybenzeneboronic acid (1 64g, 10.5 mM), tetrakis(triphenylphosphine)palladium (0) (584 mg, 0.5 mM), and 2 M aqueous sodium carbonate (10.5 mL, 21.0 mM) in 50 mL of THF was wrapped in aluminum foil and stirred at reflux for 27 hours. The THF was removed *in vacuo* and the residue dissolved in ethyl acetate. The mixture was washed with with H₂O, 1 N HCI, H₂O, sat. NaHCO₃, and saturated brine, dried over magnesium sulfate, filtered, and concentrated. The resultant light brown oil was purified by column chromatography on silica (elution with gradient toluene/ethyl acetate) to afford 2.0 g (69%) of 2-carbomethoxy-6-nitro-2'-methoxy-biphenyl as a yellow-orange solid ¹H NMR (CDCl₃) δ 8.05 (d. 1H, J=8 Hz), 7.95 (d. 1H, J=8 Hz), 7.05 (t. 1H. J=8 Hz), 7.35 (t. 1H. J=8 Hz), 7.05 (d. 1H. J=8 Hz), 7.0 (t. 1H. J=8 Hz), 6.9 (d. 1H. J=8 Hz), 3.7 (s. 3H), and 3.6 (s. 3H) IR (KBr, cm⁻¹) 1730, 1538, 1499, 1366, 1298, 1271, 1130, 774, 765, 759, 752, and 707. MS (ES) m/e 288.

Elemental Analyses for C ₁₅ H ₁₃ NO ₅ :			
Calculated.	C, 62.72.	H, 4 56.	N. 4 88
Found.	C, 62.65.	H, 4.61:	N. 4.72.

B. 9H-4-methoxy-5-carbomethoxy carbazole

[0382] A solution of the 2-carbomethoxy-6-nitro-2'-methoxy-biphenyl (144 mg, 0.5 mM) in triethylphosphite (339 mg, 0.35 mL, 2.0 mM) was heated at 150-160 °C in a sealed tube for 4 h then at room temperature for 15 hours. The mixture was dried *in vacuo* with toluene, then purified by preparative TLC on silica gel (elution with 4:1 toluene/ethyl acetate to afford 39.0 mg (30%) of the 9H-4-methoxy-5-carbomethoxy carbazole as a tan solid. ¹H NMR (CDCl₃) δ 8.25 (s, 1H), 7.4-7.2 (m, 4H) 7.05 (d, 1H, J=8 Hz), 6.65 (d, 1H, J=8 Hz), and 4.05 (s, 6H) IR (CHCl₃, cm⁻¹) 3274 (br), 1706, 1602, 1583, 1456, 1431, 1351, 1333, 1294, 1239, 1198, 1175, 1144, 1103, 781, and 724 MS (ES) m/e 256.

Elemental Analyses for C ₁₅ H ₁₃ NO ₃			
Calculated	C. 70.58	H, 5 13:	N, 5 49
Found	C. 70 85:	H, 5 29.	N, 5.29

C 9-[(2-Biphenyl)methyl]-4-methoxy-5-carbomethoxy carbazole

[0383] A solution of the 9H-4-methoxy-5-carbomethoxy carbazole (727 mg. 2.35 mM) in 15 mL DMF was added to 60% NaH mineral oil dispersion (342 mg. 8 56 mM. washed twice with hexane) at room temperature. Following cessation of gas evolution. 2-(bromomethyl)biphenyl (0.79 mL. 4.19 mM) was added and the mixture stirred at room temperature for 19 hours. The mixture was diluted with ethyl acetate and $\rm H_2O$. The ethyl acetate layer was washed with with $\rm H_2O$. 1 N HCI. $\rm H_2O$ sat $\rm NaHCO_3$ and saturated brine, dried over magnesium sulfate, filtered and concentrated to afford 1.2 g (100%) of the 9-[(2-biphenyl)methyl]-4-methoxy-5-carbomethoxy carbazole as a yellow solid ¹H NMR (CDCl₃) δ 7 6-7 2 (m. 11H). 7 05 (t. IH. J=8 Hz), 6.8 (d. 1H, J=8 Hz), 6.6 (d. 1H. J=8 Hz), 6.6 (d. 1H. J=8 Hz), 5.4 (s. 2H) and 4.0 (s. 6H). IR (KBr. cm⁻¹) 1727 MS (ES) m/e 422

Elemental Analyses for C ₂₆ H ₂₃ NO ₃ .				
Calculated	C. 79.79	H, 5 50 ⁻	N, 3.32.	
Found	C. 79.53:	H. 5.61	N, 3.15.	

D 9-[(2-Biphenyl)methyl]-4-hydroxy-5-carbomethoxy carbazole

[0384] Boron tribromide (1 0 M in methylane chloride. 1.69 mL, 1 69 mM) was slowly added to a solution of 9-[(2-biphenyl)methyl]-4-methoxy-5-carbomethoxy carbazole (547 mg, 1 3 mM) in 5 mL methylane chloride at -10 °C After 2 hours. The mixture was quenched with methanol (1.31 mL, 32.5 mM) and stirred at room temperature for 5 hours. The mixture was diluted with ethyl acetate, washed with H_2O , 1 N HCI, H_2O , sat NaHCO₃, and saturated brine, dired over magnesium sulfate, filtered, and concentrated. The residue was purified by column chromatography on silicated (elution with methylene chloride) to afford 445 mg (84%) of the 9-[(2-biphenyl)methyl]-4-hydroxy-5-carbomethoxy carbazole as a yellow foam. H NMR (CDCl₃) δ 10 35 (s. 1H), 7 95 (d. 1H, J=8 Hz), 7 6-7 2 (m. 10fH), 7 05 (t. 1H, J=8 Hz), 6 8 (m. 2H), 6 6 (d. 1H, J=8 Hz), 5.4 (s. 2H), and 4 1 (s. 3H). IR (KBr. cm⁻¹) 3200 (br), 1660, 1596, 1451, 1439, 1427, 1333, 1262, 1217, 1137, 752, 713, 1763 and 703. MS (ES) m/e 406, 408.

Elemental Analyses for C ₂₇ H ₂₁ NO ₃				
Calculated	C, 79.59.	H, 5 19.	N, 3.44	
Found	C, 80.62;	H, 5.73	N, 3 44.	

E 9-[(2-Biphenyl)methyl]-4-hydroxy-5-carbamoyl carbazole

[0385] A solution of the 9-[(2-biphenyl)methyl]-4-hydroxy-5-carbomethoxy carbazole (407 5 mg, 1 0 mM) in 5 mL THF and 20 mL concentrated aqueous ammonium hydroxide was sonicated for 28 5 hours at 40-50 °C. The mixture was diluted with ethyl acetate and acidified to pH 1 with 5 N HCI. The aqueous layer was extracted three times with ethyl acetate. The combined organic extracts were washed with H₂O and saturated brine, dried over magnesium sulfate, filtered, and concentrated. The residue was purified by column chromatography on silical gel (elution with gradient methylene chloride/ethyl acetate) to afford 165 mg (42%) of the 9-[(2-biphenyl)methyl]-4-hydroxy-5-carbamoyl carbazole as a yellow solid. HNMR (DMSO-d6) & 10.45 (s. 1H), 8.8 (br.s., 1H), 8.4 (br.s., 1H), 7.6-7.2 (m., 11H), 7.05 (t. 1H, J=8 Hz), 6.75 (d. 1H, J=8 Hz), 6.55 (d. 1H, J=8 Hz), 6.35 (d. 1H, J=8 Hz), and 5.55 (s. 2H), IR (KBr, cm⁻¹) 3451, 3331, and 1639 MS (ES) m/e 391, 393

Elemental Analyses for C ₂₆ H ₂₀ N ₂ O ₂				
Calculated	C, 79.57.	H, 5.14;	N. 7.14.	
Found C, 79.60: H, 5 37: N, 6.90.				

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F [9-[(2-Biphenyl)m thyl]-5-carbamoylcarbaz I-4-yl]oxyacetic acid, tert-butyl est ir

[0366] 40% Methanolic Triton B (0.2 mL, 0.44 mM) was added to a solution of the 9-[(2-biphenyl)methyl]-4-hydroxy-5-carbamoyl carbazole (141 mg, 0.36 mM) in 5 mL DMF at room temperature. After 5 minutes, t-butyl bromoacetate (107 mg, 0.54 mM) was added and the resultant mixture stirred at room temperature for 6.5 hours. The mixture was diluted with ethyl acetate, washed with H₂O, 1 N HCl, H₂O, sat, NaHCO₃, and saturated brine, dried over magnesium sulfate, filtered, and concentrated. The residue was purified by column chromatography on silicated (elution with gradient methylene chloride/ethyl acetate) to afford 140 mg (76%) of the {9-{(2-biphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid, tert-buty; ester as a white foam. ¹H NMR (CDCl₃) & 7 6-7.2 (m, 13H), 7.05 (t. 1H, J=8 Hz), 6.85 (d. 1H, J=8 Hz), 6.55 (d. 1H, J=8 Hz), 5.4 (s, 2H), 4.8 (s, 2H), and 1.45 (s, 9H) IR (CHCl₃ cm⁻¹) 1753 and 1674 MS (ES) m/e 507

Elemental Analyses for C ₃₂ H ₃₀ N ₂ O _{4.}				
Calculated	C. 75.87:	H, 5.97:	N, 5.53	
Found	C. 76 10;	H, 6.12.	N, 5.37	

G [9-{(2-Biphenyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid

[0387] A solution of the {9-[(2-biphenyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid, tert-butyl ester (116 mg. 0 23 mM) in 3 mL of trifluoroacetic acid was stirred at room temperature for 2 hours. The solvent was removed in *vacuo*. The residue was triturated with ethyl ether/hexanes, then dried in *vacuo* to afford 103 mg (100%) of the {9-[(2-biphenyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid as a white powder, ¹H NMR (DMSO-d6) δ 12.95 (br s, 1H), 7 75 (s. 1H), 7 65 (d. 2H, J=8 Hz), 7.55 (t, 2H, J=8 Hz), 7.4 (s, 1H), 7.35-7 2 (m, 6H), 7.05 (m, 2H), 6.9 (d. 1H, J=8 Hz), 6.6 (d. 1H, J=8 Hz), 5.55 (s, 2H), and 4 8 (s, 2H). IR (KBr, cm⁻¹) 3400, 3200, 1736, 1636, 1618, 1583, 1499, 1455, 1433, 1329, 1249, 1155, 753, and 713. MS (ES) m/e 449, 451.

Elemental Analyses for C ₂₈ H ₂₂ N ₂ O ₄			
Calculated	C, 74 65.	H, 4.92;	N, 6 22.
Found	C, 75 47.	H, 4 77;	N. 6 24.

EXAMPLE 45

Esterification of {9-[(2-Biphenyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid to the {9-[(2-Biphenyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid, methyl ester

[0388]

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[0389] A suspension of the {9-{(2-biph_nyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid (35 mg, 0.08 mM), iodomethane (12 mg, 0.09 mM), and potassium carbonate (13 mg, 0.09 mM) in 2 mL DMF at room temp_rature for 4.5

hours. The mixture was diluted with ethyl acetate, washed with H_2O , sal. NaHCO₃. H_2O , and saturated brine, dried over magnesium sulfate, filtered, and concentrated to afford 36 mg (100%) of the {9-[(2-biphenyl)methyl]-5-carbamoyl-carbazol-4-yl]oxyacetic acid, methyl ester as a white solid. H NMR (CDCl₃) & 7 6-7 2 (m. 11H), 7 1 (l. 1H, J=8 Hz) 6.85 (d. 1H, J=8 Hz), 6 5 (d. 1H, J=8 Hz), 6 55 (d. 1H, J=8 Hz), 5 8 (br.s. 2H), 5 4 (s. 2H), 4.8 (s. 2H), and 3 75 (s. 3H) IR (KBr. cm⁻¹) 1750 and 1666. MS (ES) m/e 465.

Elemental Analyses for C ₂₉ H ₂₄ N ₂ O ₄				
Calculated	C 74.98.	H. 5 21.	N, 6 03.	
Found	C. 75.09.	H. 5 57.	N. 5.63	

Example 46

Preparation of [9-Benzyl-4-carbamoyl-1 2 3 4-tetrahydrocarbaole-5-yl]oxyacetic acid

[0390]

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A 9-Benzyl-4-carboxy-5-methoxy-1.2,3,4-tetrahydrocarbazole, Ethyl Ester

[0391] A solution of 1 50 g (4 02 mmol) of 9-Benzyl-4-carboxy-3-chloro-5-methoxy-1,2 3.4-tetrahydrocarbazole. ethyl ester and 0.45 g (4 40 mmol) of Et_3N in 25 mL of EtOH was treated with 0 24 g of 5% Pd-C and the mixture hydrogenated at 60 pounds per square inch for 16 hours. The reaction was filtered and concentrated *in vacuo* to give 1 40 g of a tan solid. HNMR (CDCl $_3$) δ 7 30-7 19 (m. 3H) 7 03-6.95 (m. 3H), 6.80 (d. 1H, J=6 1 Hz), 6 44 (d. 1H, J=7 7 Hz) 5 22 (d. 2H, J=5 9 Hz), 4 22-4 11 (m. 3H), 3.82 is. 3H), 2 75-2 64 (m. 1H), 2 59-2 48 (m. 1H), 2 11-1 64 (m. 4H), and 1 25 (t. 3H, J=7 0 Hz), IR (CHCl $_3$) 2959, 1725, 1499, 1453, 1260, 1178, 1128 cm-1;

Elemental Analyses for C ₂₃ H ₂₅ NO ₃		
Calculated	363 1836	
Found	363 1834	

B 9-Benzyl-4-carbamoyi-5-hydroxy-1,2,3.4-tetrahydrocarbazole

[0392] A 0 °C solution of 1 00 g (2 80 mmol) 9-benzyl-4-carboxy-5-methoxy-1.2.3.4-tetrahydrocarbazole ethyl ester in 15 mL of CH_2Cl_2 was treated with 22 40 mL (22 40 mmol. 1M in CH_2Cl_2) of BBr_3 . The cold bath was removed and the reaction stirred until the analysis (10% EtOAc in hexanes) indicated complete consumption of starting material (1.5 hours). The reaction was cooled to 0 °C and was quenched with 5 0 mL of MeOH. The mixture was stirred at ambient temperature for 18 hours and was concentrated *in vacuo*. The black oil was taken up in 200 mL of CH_2Cl_2 and the solution washed with H20 (100 mL) and saturated aqueous NaHCO $_3$ (100mL). Evaporation of the solvent *in vacuo* afforded 700 mg of a black oil. Purification by radial chromatography (10 % EtOAc in hexanes) afforded 400 mg of 9-benzyl-4-carboxy-5-hydroxy-1 2 3 4-tetrahydrocarbazol., ethyl ester which was taken on directly to the next reaction

[0393] The phenol was taken up in 40 ml. I THF and the solution treated with 10 mL of NH₄OH. The reaction vessel was capped and the mixture stirred vigorously for 13 days. The reaction was poured into H₂O and the mixture extracted with EtOAc (3 x 150 mL). The combined organic layers were dried (Na₂SO₄) littered and concentrated in *vacuo* to give 300 mg of a brown foam. Radial chromatography (3% MeOH in CH₂Cl₂) afforded 50 mg of starting phenol and 80 mg (0.03 mmol 22 %) of 9-benzyl-4-carbamoyl-5-hydroxy-1,2,3,4-tetrahydrocarbazole. ¹H NMR (CDCl₅) δ 7.33-7.24 (m. 3H), 7.06-6.97 (m. 3H), 6.81 (d. 1H, J=8.1 Hz) 6.56 (d. 1H, J=7.5 Hz) 5.22 (d. 2H J=2.2 Hz), 4.20-4.15 (m. 1H), 2.78-2.67 (m. 1H), 2.63-2.51 (m. 1H), 2.35-2.27 (m. 1H), and 2.09-1.91 (m. 3H), no phenol proton detected IR (CHCl₃) 3007, 1667, 1586, 1567, 1496, 1266 cm-1:

Elemental Analyses for C ₂₀ H ₂₁ N ₂ O ₂				
Calculated	321 1603			
Found	321 1607			

C. [9-Benzyl-4-carbamoyl-1,2,3,4-tetrahydrocarbazole-5-yl]oxyacetic acid, Methyl Ester

[0394] A solution of 80 mg (0.25 mmol) of 9-benzyl-4-carbamoyl-5-hydroxy-1.2,3,4-tetrahydrocarbazole in 2.5 mL of DMF was treated with 61 mg (0.30 mmol) of Cs $_2$ CO $_3$ followed by 26 mg (0.30 mmol) of methyl bromoacetate. The mixture was stirred at room temperature until the indicated complete consumption of starting material (2 hours). The reaction was diluted with H $_2$ O (10 mL) and was extracted with EtOAc (3x10 mL). The combined organic layers were washed with H $_2$ O (3 x2 0 mL), dried over Na $_2$ SO $_4$, filtered, and concentrated *in vacuo*. The residue was puritied by radial chromatography (SiO $_2$, 2.5% MeOH in CH $_2$ Cl $_2$) to afford 50 mg (0.13 mmol, 51%) of [9-benzyl-4-carbamoyl-1.2,3,4-tetrahydrocarbazole-5-yl]oxyacetic acid, methyl ester as an oil 1 H NMR (CDCl $_3$) δ 7 33-7 21 (m, 3H) 7 05-6 98 (m, 3H), 6 98 (d, 1H, J=7 4 Hz), 6 46 (br s, 1H), 6.37 (d, 1H, J=7 7 Hz), 5 52 (br s. 1H) 5.23 (d. 1H, J=4.9 Hz) 4 79-4 70 (m. 2H), 4.20-4.15 (m, 1H), 3 81 (s, 3H), 2 79-2.69 (m. 1H), 2.63-2.49 (m. 1H), 2 43-2 35 (m. IH), 2 25-2 09 (m. 1H) and 1 99-1.78 (m, 2H) IR (CHCl $_3$, cm $_3$ 1 1759 1670, 1497, 1453, 1440, and 1132 MS (ES) m/e 393 (M+1)

Elemental Analyses for C ₂₃ H ₂₄ N ₂ O ₄ .			
Calculated	C, 70.39;	H, 6.16,	N, 7 14.
Found	C, 70.29.	H, 6 31,	N. 7.08

D. [9-Benzyl-4-carbamoyl-1,2.3,4-tetrahydrocarbazole-5-yl]oxyacetic acid

[0395] A solution of 30 mg (0 076 mmol) of [9-benzyl-4-carbamoyl-1,2,3,4-tetrahydrocarbazole-5-yl]oxyacetic acid, methyl ester in 1.0 mL of THF and 1.0 mL of MeOH was treated with 0 2 mL of 1 N aqueous LiOH (0 2 mmol). The mixture was stirred for 18 hours. An additional 0 2 mL of 1 N aqueous LiOH (0.2 mmol) was added and stirring continued After 1 hour, the mixture was concentrated *in vacuo*. The residue was dissolved in 2.0 mL of H₂O and the solution acidified with 0.2 N aqueous HCl. The solid was filtered and dried to afford 25 mg of [9-benzyl-4-carbamoyl-1,2,3,4-tetrahydrocarbazole-5-yl]oxyacetic acid as a white solid. ¹H NMR (DMSO-d6) δ 7 36-7 12 (m. 5H), 7 05-6 83 (m. 5H), 6 71 (br s. 1H), 6.35 (d, 1H, J=7 6 Hz), 5.27 (s, 2H), 4.64 (s. 2H), 3 93-3 84 (m. 2H), 2 75-2.64 (m. 1H), 2 16-1 95 (m. 2H), 1.81-1.64 (m. 2H) and 1 proton masked by H₂O peak between 2 58-2 40. IR (KBr, cm⁻¹) 3435, 2936, 1722. 1644 1586, 1566, 1495, 1451, 1354, 1227, 1134, 730, 716. and 698 MS (ES) m/e 377 (M-1) and 379 (M+1)

Elemental Analyses for C ₂₂ H ₂₂ N ₂ O ₄				
Calculated	C 69 83:	H, 5 86	N. 7 40	
Found	C, 70.11:	H. 5.76,	N, 7 12	

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EXAMPLE 47

Preparation of {9-[(2-Pyridyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid

[0396]

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A 9-[(2-Pyridyl)methyl]-5-carbomethoxy-1 2-dihydrocarbazol-4(3H)-one

[0397] A 0 °C suspension of 5-carbomethoxy-1 2-dihydro-9H-carbazol-4(3H)-one (1 50 g 6 17 mmol), potassium carbonate (2 60 g, 18.8 mmol), and catalytic amount of sodium iodide (ca. 10 mg), was treated with 2-picolyl chloride hydrochloride (1 10 g, 6 70 mmol). The cold bath was removed and the reaction stirred at ambient temperature 72 hours. The reaction was poured into H₂O (100 mL) and the mixture extracted four times with ethyl acetate. The combined organic layers were washed four times with H₂O, once with saturated brine, dried over anhydrous sodium sulfate, filtered, and concentrated. The residue was purified by flash chromatography on silica gel (elution with 70% then 80% then 85% EtOAc in hexanes) to afford 1.70 g (82%) of the 9-[(2-pyridyl)methyl]-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one as an oil which solidified on standing. ¹H NMR (CDCl₅) & 8 52 (br s. 1H), 7 54-7 47 (m, 1H), 7 34-7 26 (m, 2H), 7 18-7 11 (m, 2H), 6.67 (d, J=7 8 Hz, 1H), 5 34 (s. 2H), 3 99 (s. 3H), 2 87 (t, 2H, J=6 0 Hz), 2 50 (t, 2H, J=6 3 Hz), and 2 20-2 13 (m, 2H), IR (CHCl₃, cm⁻¹), 3010, 2953, 1725, 1654, 1463, 1446, 1288 and 1121. MS (ES) m/e 335 (M+1)

Elemental Analyses for C ₂₀ H ₁₈ N ₂ O ₃			
Calculated	C, 71.84;	H, 5 43	N. 8 38
	C, 71.70:		

B. 9-[(2-Pyridyl)methyl]-4-hydroxy-5-carbomethoxy carbazole

[0398] A solution of the 9-{(2-pyridyl)methyl]-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one (500 mg 1.50 mmol) in 2 mL of dioxane was treated with sodium hydride (140 mg, 3 50 mmol; 60% dispersion in mineral oil) and the mixture stirred for 15 minutes. Methyl benzenesulfinate (0 32 mL, 2 45 mmol) was added dropwise and the reaction stirred at room temperature. After 0 5 hours, gas evolution began and the reaction turned dark brown. The mixture was stirred until the indicated complete consumption of starting material (1 hour) at which time glacial acetic acid (0 20 mL; 3.50 mmol) was added. An additional 2 mL of dioxane was added to assist stirring and the mixture was heated to mild reflux for 1 hour. The reaction was cooled and diluted with EtOAc (50 mL). The organic layer was separated, washed once with saturated aqueous. NaHCO $_3$ and once with saturated brine, dried over anhydrous sodium sulfate, filtered, and concentrated. The residue was purified by radial chromatography on silica gel (elution with 20% ethyl acetate in hexanes) to afford 470 0 mg (94%) of the 9-{(2-pyridyl)methyl]-4-hydroxy-5-carbomethyoxy carbazole as a solid. H.NMR (CDCl $_3$) δ 10.37 (s. 1H), 8.61 (d. 1H, J=3.7 Hz), 8.01 (d. 1H, J=7.8 Hz), 7.63 (d. 1H, J=8.3 Hz), 7.47-7.39 (m. 3H), 7.19-7.14 (m. 1H), 6.94 (d. 1H. J=8.3 Hz), 6.84 (d. 1H. J=8.3 Hz), 6.59 (d. 1H. J=7.8 Hz), 5.66 (s. 2H), and 4.10 (s. 3H) IR (CHCl $_3$, cm⁻¹) 3200 (br), 1686–1597, 1442, 1428, 1332, 1286, and 1268, MS (ES) m/e 333 (M+1).

Elemental Analyses for C ₂₀ H ₁₆ N ₂ O ₃ .			
Calculated	C. 72.28;	H, 4 85.	N, 8 43.

(continued)

Elemental Analyses for C ₂₀ H ₁₆ N ₂ O ₃ .			
Found	C. 72 44.	H. 4.79;	N, 8 44.

c 9-[(2-Pyridyi)methyl]-4-hydroxy-5-carbamoyl carbazole

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[0399] A solution of the 9-{(2-pyridyl)methyl]-4-hydroxy-5-carbomethoxy carbazole (480 mg. 1.43 mmol) in 10 mL THF and 40 mL concentrated aqueous ammonium hydroxide was treated with a stream of NH₃ gas to ensure saturation. The reaction vessel was capped and the mixture heated to 35 °C with stirring until tic indicated complete consumption of starting material (20 hours). The THF was evaporated and the aqueous layer saturated with solid sodium chloride. The mixture was extracted three times with THF. The combined organic layers were dried over anhydrous sodium sulfate, filtered and concentrated. The foam was taken up in hot ethyl acetate and passed over a shoroom temperaturecolumn of silica gell using ethyl acetate as the eluent to afford 247 mg (54%) of the 9-{(2-pyridyl)methyl}-4-hydroxy-5-carbamoyl carbazole as a white solid. H. NMR (DMSO-d6) δ 10.46 (s., 1H), 8.81 (br.s., 1H), 8.46 (d., 1H, J=5.8 Hz), 8.36 (br.s., 1H), 7.8 (dd, 1H, J=2.9 and 6.4 Hz), 7.67-7.59 (m., 1H), 7.47-7.41 (m., 2H), 7.30-7.20 (m., 2H), 7.05 (d., 1H, J=7.9 Hz), 6.87 (d., 1H, J=9.3 Hz), 6.57 (d., 1H, J=7.8 Hz), and 5.73 (s., 2H) IR (KBr. cm-1). 3404, 3051. 1652, 1618, 1595, 1582, 1567, 1559, 1450, 1436, 1334, 1266. 1226, 776, 763 and 647. MS (ES) m/e 318 (M+1).

Elemental Analyses for C ₁₉ H ₁₅ N ₃ O ₂ :				
Calculated	C, 71.91;	H. 476	N. 13 24.	
Found	C, 72.11	H, 4 70 ⁻	N. 12.95.	

D [9-[(2-Pyridyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid, methyl ester

[0400] A mixture of the 9-{(2-pyridyl)methyl]-4-hydroxy-5-carbamoyl carbazole (216 mg, 0 68 mmol) and Cs_2CO_3 (550 mg, 1 69 mmol) in 5 mL DMF was treated with methyl bromoacetate (0 08 mL; 0 85 mmol). The reaction was stirred until tlc analysis indicated complete consumption of, starting material (2 hours). The mixture was concentrated and the residue taken up in H_2O (50 mL). The aqueous layer was saturated with solid NaCl and was extracted five times with THF. The combined organic layers were dried over anhydrous sodium sulfate, filtered and concentrated. The solid was triturated with EtOAc to afford 205 mg (77%) of the $\{9-\{(2-pyridyl)methyl]-5-carbamoylcarbazol-4-yl\}$ oxyacetic acid, methyl ester as an off white solid 1 H NMR (DMSO-d6) δ 8 47 (d, 1H, J=4.9 Hz), 7 66-7 57 (m, 2H), 7.48 (br s, 1H), 7 38-7.27 (m, 2H), 7.24-7 19 (m, 2H), 7 19 (br s, 1H), 7 04 (d, 1H, J=7.3 Hz), 6.87 (d, 1H, J=7.8 Hz), 6.56 (d, 1H, J=7.8 Hz), 5 71 (s, 2H), 4 89 (s, 2H), and 3 69 (s, 3H), IR (CHCl₃, cm⁻¹) 3380, 3140, 1737, 1675–1500, 1457, 1354, 1340, 1242, 1158, 772, and 715. MS (ES) m/e 390 (M+1).

Elemental Analyses for C ₂₂ H ₁₉ N ₃ O ₄ :				
Calculated	C, 67 86.	H, 4 92.	N. 10.79	
Found	C, 67.75,	H, 508.	N. 10.66	

E. {9-[(2-Pyndyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid. hydrochloride

[0401] A slurry of the $\{9-(2-pyridyl)methyl]-5$ -carbamoylcarbazol-4-yl]oxyacetic acid. methyl ester (75.0 mg. 0.19 mmol) in 1.3 mL of THF and 0.4 mL of MeOH was treated with 0.4 mL of 1 N aqueous LiOH (0.4 mmol) and the mixture stirred at room temperature for 16 hours. The reaction was concentrated and the residue purified by reverse phase chromatography (Vydac C18 column using a 5% to 40% gradient of 0.01% HCl in acetonitrile in 0.01% HCl in H₂O. The fractions containing product were lyopholized to afford 75 mg (96%) of $\{9-(2-pyridyl)methyl]-5$ -carbamoylcarbazol-4-yl]oxyacetic acid hydrochloride as a white powder. 1 H NMR (DMSO-d6) δ 1 H NMR (DMSO-d6) δ 5 5 0-8 46 (m. 1H), 7.71 (br s. 1H), 7.62-7.67 (m. 1H), 7.58 (d. 1H, J=8.3 Hz), 7.38 (br s. 1H), 7.42-7.29 (m. 3H). 7.26-7.19 (m. 2H), 7.06 (d. 1H, J=7.3 Hz), δ 0 87 (d. 1H, J=7.8 Hz), δ 1 88 (d. 1H, J=8.3 Hz), 5.73 (s. 2H) and δ 3 (s. 2H), no acid proton detected IR (KBr, cm⁻¹) 3381. 1716, 1637, 1593, 1580. 1499, 1454. 1430, 1330, 1287. 1157, 1093. 776 and 720 MS (ES) mv e376 (M+1).

Elemental Analyses for C ₂₁ H ₁₇ N ₃ O ₄ HCl:				
Ì	Calculated:	C, 61.24:	H, 4.41,	N, 10 20

(continued)

Elemental Analyses for C ₂₁ H ₁₇ N ₃ O ₄ .HCl					
Found	C 61 11.	H. 4.25.	N 10 23.		

EXAMPLE 48

Preparation of [9-[(3-Pyridyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid

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A. 9-[(3-Pyridyl)methyl]-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one

[0403] A suspension of 5-carbomethoxy-1.2-dihydro-9H-carbazol-4(3H)-one (500 mg. 2 06 mmol). potassium carbonate (860 mg, 13 8 mmol). and catalytic amount of sodium iodide (ca. 10 mg), was treated with 3-picolyl chloride hydrochlonde (500 mg, 3.05 mmol). The reaction was stirred at ambient temperature 19.5 hours. The mixture was poured into H₂O (100 mL) and the mixture extracted four times with ethyl acetate. The combined organic layers were washed four times with H₂O, once with saturated brine, dried over anhydrous sodium sulfate, filtered, and concentrated. The residue was purified by flash chromatography on silicated (elution with 5% MeOH in EtOAc) to afford 550 mg (80%) of the 9-{(3-pyridyl)methyl]-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one as a white solid. H NMR (COCl₃) δ 8 48 (d. 1H, J=2 9 Hz), 8 43 (br. s. 1H). 7 31 (d. 1H, J=7 3 Hz), 7 25-7 09 (m. 5H), 5.29 (s. 2H), 3 97 (s. 3H), 2.80 (t. 2H, J=6 1 Hz). 2 49 (t. 2H, J=6 4 Hz), and 2 20-2 12 (m. 2H). IR (CHCl₃, cm⁻¹) 1726, 1656, 1464, 1444–1434, 1289 and 1119 MS (ES) m/e 335 (M+1).

Elemental Analyses for C ₂₀ H ₁₈ N ₂ O ₃						
Calculated	C. 71.84	H. 5 43;	N, 8 38			
Found	C. 70.97.	H 589:	N. 8.53			

B. 9-[(3-Pyridyl)methyl]-4-hydroxy-5-carbomethoxy carbazole

[0404] A solution of the 9-[(3-pyridyl)methyl]-5-carbomethoxy-1 2-dihydrocarbazol-4(3H)-one (456 mg. 1.31 mmol) in 3 mL of dioxane was treated with sodium hydride (128 mg. 3 20 mmol; 60% dispersion in mineral oil) and the mixture stirred for 15 minutes. Methyl benzenesulfinate (0.32 mL; 2 45 mmol) was added dropwise and the reaction heated to 70 °C until tlc analysis indicated complete consumption of starting material (2 hours). The reaction was cooled and diluted with EtOAc (50 mL). The organic layer was separated, washed once with saturated aqueous. NaHCO₃ and once with saturated brine, dried over anhydrous sodium sulfate, filtered, and concentrated. The residue was purified by radial chromatography on silica gel (eliution with 20% then 30 % then 50% then 75% ethyl acetate in hexanes) to alford 400 mg (92%) of the 9-[(3-pyridyl)methyl]-4-hydroxy-5-carbomethyoxy carbazole as a yellow solid. ¹H NMR (DMSO-d6) δ 10 20 (s, 1H), 3.46 (d. 1H J=2 0 Hz), 8.39 (d, 1H, J=4 9 Hz), 7.73 (d, 1H J=8 3 Hz), 7.43-7.37 (m. 2H), 7.28-7.21 (m. 2H), 7.15-7.08 (m. 2H), 6.56 (d. 1H, J=7.8 Hz), 5.67 (s. 2H), and 3.80 (s, 3H) IR (KBr, cm⁻¹) 1722, 1585, 1459, 1431, 1331, 1321, 1292, 1278, 1136, 781 and 763. MS (ES) m/e 333 (M+1).

Elemental Analyses for C ₂₀ H ₁₆ N ₂ O ₃ .					
Calculated	C. 72 28.	H, 4 85	N 8 43.		
Found	C. 72 37.	H. 4 67.	N. 8 71		

C 9-[(3-Pyridyl)methyl]-4-hydroxy-5-carbamoyl carbazole

[0405] A solution of the 9-[(3-pyridyl)methyl]-4-hydroxy-5-carbomethoxy carbazole (362 mg. 1 09 mmol) in 15 mL THF and 60 mL concentrated aqueous ammonium hydroxide was treated with a stream of NH $_3$ gas to ensure saturation. The reaction vessel was capped and the mixture heated to 35 °C with stirring until tic indicated complete consumption of starting material (48 hours). The mixture was neutralized to pH 8 with 5 N aqueous HCI, saturated with solid sodium chloride, and extracted twice with THF. The combined organic layers were concentrated. The resulting foam was taken up in a minimal amount of THF and loaded onto a silica gel column which had been pre equilibrated with EtOAc Elution with EtOAc afforded 255 mg (74%) of the 9-[(3-pyridyl)methyl]-4-hydroxy-5-carbamoyl carbazole as a yellow solid. HNMR (DMSO-d6) δ 10 46 (s. 1H), 8 79 (br.s. 1H), 8 43 (d., 1H, J=1.5 Hz), 8 39 (dd. 1H, J=1.4 and 4.9 Hz). 8.35 (br.s., 1H), 7 84 (d. 1H, J=7.8 Hz), 7 48-7.22 (m., 6H), 7 13 (d. 1H, J=8.3 Hz), 6 58 (d. 1H, J=7.9 Hz), and 5 73 (s. 2H) IR (KBr. cm⁻¹) 3436, 3198 (br.), 1629, 1619, 1599, 1580, 1564, 1547, 1444, 1433, 1329, 1263, and 776 MS (ES) m/e 318 (M+1).

Elemental Analyses for C ₁₉ H ₁₅ N ₃ O ₂ :					
Calculated	C, 71 91.	H. 476.	N, 1324		
	C, 72 10	H 466			

D [9-[(3-Pyridyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid, methyl ester.

[0406] A mixture of the 9-[(3-pyridyl)methyl]-4-hydroxy-5-carbamoyl carbazole (225 mg, 0 71 mmol) and Cs_2CO_3 (580 mg, 1 78 mmol) in 5 mL DMF was treated with methyl bromoacetate (0 09 mL, 0 95 mmol). The reaction was stirred until tic analysis indicated complete consumption of starting material (2 hours). The mixture was concentrated and the residue taken up in H_2O (50 mL). The aqueous layer was saturated with solid NaCl and was extracted five times with THF. The combined organic layers were dried over anhydrous sodium sulfate, filtered and concentrated. The solid was triturated with THF then EtOAc to afford 85 mg of the $\{9-[(2-pyridyl)methyl]-5-carbamoylcarbazol-4-yl]$ oxyacetic acid, methyl ester as an off white solid. The mother liquors from the triturations were chromatographed over silica gell using radial chromatography (0 5% then 1% then 2% MeOH in CHCl₃) to afford an additional 80 mg of product (165 mg total; 60%). HNMR (CDCl₃) δ 8 53 (br. 2H), 7 42-7 39 (m, 4H), 7.20 (d. 1H, J=7 8 Hz). 7 13 (br.s. 1H), 6 98 (d, 1H, J=8.3 Hz), 6 56 (d, 1H, J=7.9 Hz), 6.17 (br.s. 1H), 5 91 (br.s. 1H), 5 49 (s. 2H), 4 88 (s. 2H), and 3 79 (s. 3H). IR (KBr, cm⁻¹) 3367, 3161, 1760, 1733, 1673, 1577, 1501, 1458, 1433, 1418, 1328, 1216, 1202, 1180, 1157, 771, and 714. MS (ES) m/e 373 (M+-NH₂) and 390 (M+1)

E. {9-{(3-Pyridyl)methyl}-5-carbamoylcarbazol-4-yl}oxyacetic acid, hydrochloride

[0407] A slurry of the $\{9-\{(3-\text{pyridyl})\text{methyl}\}$ -5-carbamoylcarbazol-4-yl $\}$ oxyacetic acid, methyl ester (85.0 mg. 0 22 mmol) in 1.5 mL of THF and 0.48 mL of MeOH was treated with 0.48 mL of 1.N aqueous LiOH (0.48 mmol) and the mixture stirred at room temperature for 16 hours. The reaction was concentrated and the residue purified by reverse phase chromatography (Vydac C18 column using a 5% to 40% gradient of 0.01% HCl in acetonitrile in 0.01% HCl in H_2O . The fractions containing product were lyopholized to afford 63 mg (70%) of $\{9-\{(3-\text{pyridyl})\text{methyl}\}$ -5-carbamoyl-carbazol-4-yl $\}$ oxyacetic acid hydrochloride as a white powder. H NMR (DMSO-d6) δ 8 62-8 57 (m. 2H), 7 77-7 67 (m. 3H), 7 62-7 54 (m. 1H), 7.43-7 28 (m, 4H), 7 09 (d. 1H, J=6.3 Hz), 6.61 (d. 1H, J=7 6 Hz), 5 81 (s. 2H) and 4 80 (s. 2H), no acid proton detected. IR (KBr, cm⁻¹) 3424, 3324, 1728, 1671, 1655, 1616, 1595, 1579, 1500, 1456, 1421, 1328, 1203, 1156, and 772 MS (ES) m/e 374 (M-1), 376 (M+1).

Elemental Analyses for C ₂₂ H ₁₇ N ₃ O ₄ HCI						
Calculated	C. 61.24.	H, 4.41.	N, 10 20.			
Found	C. 61.28.	H, 4.25;	N. 10 28			

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Exampl 49

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Preparation of [9-benzyl-4-carbamoyl-8-methyl-1,2.3,4-tetrahydrocarbazol-5-yl]oxyacetic acid

A Preparation of ethyl 5-methoxy-8-methyl-1.2.3.4-tetrahydrocarbazole-4-carboxylate

[0408] A solution of 1.87 g (13.65 mmol) of 2-methyl-5-methoxyaniline and 3.40 g (13.65 mmol) of 2-carboethoxy-6-bromocyclohexanone (Sheehan and Mumaw. JACS. 72. 2127 (1950)) in 10 ml of anhydrous dimethylformamide was heated at 55°C for 13 hours. The reaction mixture was cooled, poured into brine and extracted twice with diethyl ether. The extracts were washed twice with water and then with brine, dried over magnesium sulfate and concentrated. The residue was chromatographed on silica gel using a 10.1 hexane/ethyl acetate mixture to afford 2.88 g (69 %) of a mixture of diastereomers of N-alkylated material. This mixture was refluxed in 90 ml of benzene with 4.69 g (34.4 mmol) of zinc chloride for 10 hours. The solvent was evaporated and the residue was partitioned between 80 ml of 1.N HCI and 80 ml of ethyl acetate and then extracted once more with ethyl acetate. The organic layers were washed with water and then brine, dried over magnesium sulfate and concentrated to afford 2.60 g (95%) of the subtitled compound in p. 119-122°C.

Elemental A	Elemental Analyses				
Calculated	C 71 06	H 7 37.	N 4.87		
Found	C 71 35	H 7 25.	N 4.92		

B. Preparation of ethyl 9-benzyl-5-methoxy-8-methyl-1,2.3.4-tetrahydrocarbazole-4-carboxylate

[0409] A solution of 1 58 g of ethyl 5-methoxy-8-methyl-1 2,3,4-tetrahydrocarbazole-4-carboxylate in 5 ml of dimethylformamide was added to 0 24 g of sodium hydride (60% in mineral oil) in 5 ml of dimethylformamide and stirred for 30 minutes at room temperature. Potassium iodide (90 mg) and 0 75 ml of benzyl bromide were then added and the reaction was stirred overnight. The reaction mixture was poured into 75 ml of saturated ammonium chloride solution and then extracted twice with ether. The extracts were washed with water and then with brine diried over magnesium sulfate and concentrated. The residue was chromatographed on silica gell using hexane/ethyl acetate mixtures to afford 1.09 g (53%) of the subtitle compound. ESIMS *m/e* 378 (M++1) NMR (300 MHz. CDCl₃). § 7 28-7,19 (m. 3H). § 84 (d. J=7 4. 2H): § 67 (d. J=7 8. 1H): § 33 (d. J=7 9. 1H), § 55 and § 39 (ABq. J=7 8. 2H). 4.17 (q+m. J=6.9. 3H): 3.80 (s. 3H). 2.64 (dt. J=16.1.5.3 lH). 2.48 (dt. J=16.6.6.9.1H). 2.41 (s. 3H). 2.05 (m. 2H). 1.95 (m. 1H):1.83 (m. 1H). 1.25 (t. J=7.3.3H)

C Preparation of 9-benzyl-5-methoxy-8-methyl-1.2.3,4-tetrahydrocarbazole-4-carboxamide

[0410] A slurry of 0 38 g of ammonium chloride in 15 ml of dry toluene was cooled in an ice bath and treated with 3 5 ml of a 2 0 M solution of trimethylaluminum in toluene. This mixture was stirred for 1 hour at room temperature whereupon 0 762 g (2 02 mmol) of ethyl 9-benzyl-5-methoxy-8-methyl-1.2,3.4-tetrahydrocarbazole-4-carboxylate in 10 ml of toluene and 1 ml of dichloromethane was added. The mixture was heated to 50°C overnight, cooled and quenched with 20 ml of aqueous 5% HCl solution. Ethyl acetate extracts (3x 100 ml) were washed with water and then with brine dired over magnesium sulfate and concentrated to afford 0 693 g (98%) of the subtitle compound. ESIMS m/e 349 (M*+1) NMR (300 MHz. CDCl₃) 8 7 25 (m, 3H), 6 83 (d, J=7 2, 2H); 6.74 (d, J=7 8, 1H), 6 40 (d, J=7 8, 1H), 5 93 (br 1H) 5 54 and 5 45 (ABq, J=17 7, 2H) 5 42 (br. 1H), 4 14 (br. 1H); 3 87 (s, 3H); 2.65 (dt. J=16 4, 4 1, 1H), 2 55-2 36 (m 2H) 2 45 (s, 3H), 1 97-1 86 (m, 3H)

D Preparation of [9-benzyl-4-carbamoyl-8-methyl-1, 2.3 4-tetrahydrocarbazol-5-yl]oxyacetic acid methyl ester

[0411] A solution of 0 661 g of 9-benzyl-5-methoxy-8-methyl-1.2.3,4-letrahydrocarbazole-4-carboxamide in 50 ml of dry dichloromethane was cooled to -40°C and treated dropwise with 1 8 ml of neat boron tribromide. The reaction was stirred for 2 hours at room temperature and quenched by pouring into ice and adding 1 N HCl solution. This mixture was extracted twice with dichloromethane and the organic layers were dried over magnesium sulfate and concentrated to afford 0 625 g of the demethylated compound

[0412] A solution of 0.55 g of this intermediate in 10 ml of dimethylformamide was cooled in an ice bath and treated with 1.61 g of c. sium carbonate and 0.16 ml of methyl bromoacetate. After stirring for 1 hour at room temperature, the reaction mixture was poured into water and extracted twice with ethyl acetate. The extracts were washed with water and then with brine, dried over magnesium sulfate and concentrated. The residue was chromatographed on silica gel

using methanol/ 0-2% in dichloromethan to afford 0.46 g (69%) of the subtitle compound m.p. 209°C

Elemental A	Elemental Analyses				
Calculated	C 70.92.	H 6 45,	N 6 89		
Found	C 70.85.	H 6 19:	N 6 98		

E. Preparation of [9-benzyl-4-carbamoyl-8-methyl-1,2,3,4-tetrahydrocarbazol-5-yl]oxyacetic acid]

[0413] A slurry of 64 mg (0 157 mmol) of [9-benzyl-4-carbamoyl-8-methyl-1,2,3,4-tetrahydrocarbazol-5-yl]oxyacetic acid methyl ester in 2 ml of tetrahydrofuran and 7 ml of methanol was treated with 0.5 ml of an aqueous 2 N sodium hydroxide solution and stirred overnight at room temperature. The solvent was evaporated and the residue was partitioned between ethyl acetate and 1 N HCl solution. After another extraction with ethyl acetate, the extracts were washed with brine, dried over magnesium sulfate and concentrated to afford a quantitative yield (62 mg) of the title compound ESIMS m/e 393 (M*+1), 391 (M*-1), NMR (300 MHz, d⁶-DMSO); δ 12 98 (br, 1H); 7,30-7 18 (m, 3H) 6 32 (d+br, J=7 0, 3H); 6.73 (br, 1H), 6 59 (d, J=7.9,1H), 6 26 (d, J=7.9, 1H); 5 53 and 5 45 (ABq, J=18.1, 2H), 4 62 (s, 2H); 3 96 (br, 1H), 2.63 (m, 1H), 2 43 (m, 1H); 2.34 (s, 3H), 2.04 (m, 2H), 1.78 (m, 2H).

Elemental Analyses					
Calculated	C 70.39.	H 6.16	N 7 14		
Found	C 70.41,	H 6 44;	N 6 88		

Example 50

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Preparation of [9-benzyl-5-carbamoyl-1-methylcarbazol-4-yl]oxyacetic acid

A Preparation of 5-carbamoyl-4-methoxy-1-methylcarbazole

[0414] A solution of 0 805 g of 9-benzyl-5-methoxy-8-methyl-1,2,3,4-tetrahydrocarbazote-4-carboxamide in 24 ml of carbitol was treated with 1 1 g of 5% palladium on carbon and was refluxed for 6 hours open to the air. After cooling, the solution was filtered thourough a pad of celite and the pad was washed with ethyl acetate. The filtrates were diluted with ether and washed four times with water and dried over magnesium sulfate and concentrated. The residue was chromatographed on silica gel using methanol/0-4% in dichloromethane to afford 0.166 g (28%) of debenzylated carbazole. ESIMS m/e 255 (M*+1), 253 (M*-1) NMR (300 MHz. CDCl₃), δ 8.13 (br, 1H): 7.51 (d, J=8 1, 1H): 7 40 (t, J=7 6, 1H): 7.32 (d, J=7 2, 1H): 7.18 (d, J=7.8, 1H): 6 60 (d, J=8 0, 1H); 5.68 (br, 2H), 3 99 (s, 3H); 2.50 (s 3H)

B Preparation of 9-benzyl-5-carbamoyl-4-methoxy-1-methylcarbazole

[0415] A solution of 0 148 g of 5-carbamoyl-4-methoxy-1-methylcarbazole in 1.1 ml of dimethylformamide was added to 0.026 g of sodium hydride (60% in mineral oil) in 0.4 ml of dimethylformamide and stirred for 60 minutes at room temperature. Benzyl bromide (0.076 ml) was then added and the reaction was stirred overnight. The reaction mixture was poured into 20 ml of saturated ammonium chloride solution and then extracted twice with ethyl acetate. The extracts were washed with water and then with brine, dried over magnesium sulfate and concentrated. The residue was rinsed with hexane and dissolved in dichloromethane, filtered and concentrated to afford 0.21 g of the subtitle compound FDMS m/e 344 (M*)

Elemental Analyses				
Calculated	C 76.72,	H 5 85;	N 8.13	
Found	C 75.20,	H 6 19:	N 7.54	

C. Preparation of [9-benzyl-5-carbamoyl-1-methylcarbazol-4-yl]oxyacetic acid methyl ester]

[0416] A solution of 0 23 g of 9-benzyl-5-carbamoyl-4-methoxy-1-methylcarbazole in 4 ml of dimethylformamide was added to a 1 ml solution of sodium ethane thick late (prepared from 0 116 g of sodium hydride 60% dispersion and 0 22 ml of thanethiol under nitrogen) and heated at 110°C for 15 hours. The reaction mixture was cooled, poured into 20 ml of 1 N HCl and extracted twice with ethyl act tate. The extracts were washed twice with water and then with brine,

dried over magnesium sulfate and concentrated. The residue was chromatographed on silica gell using militan. I/O-1% in dichloromethane to afford 0.146 g (66%) of the demethylated intermediate. A solution of 0.146 g of this intermediate in 1.5 ml of dimethylformamide was added to 0.021 g of sodium hydride (60% in mineral oil) in 0.5 ml of dimethylformamide. After stirring for 10 minutes at room temperature. 0.054 ml of methyl bromoacetate was added. After stirring for 5 hours at room temperature, the reaction mixture was poured into water and extracted twice with ethyl acetate. The extracts were washed with water and then with brine, dired over magnesium sulfate and concentrated. The residue was chromatographed on silica gell using methanol/ 0-2% in dichloromethane to afford 0.10 g (56%) of the subtitle compound mp. 228-230°C ESIMS m/e 403 (M*+1).

Elemental Analyses					
Calculated	C 71 63.	H 5 51:	N 6.96		
Found	C 71 34.	H 5 60.	N 6 70		

D. Preparation of [9-benzyl-5-carbamoyl-1-methylcarbazol-4-yl]oxyacetic acid

[0417] A slurry of 32 mg (0 0795 mmol) of [9-benzyl-5-carbamoyl-1-methylcarbazol-4-yl]oxyacetic acid methyl ester in 1 ml of tetrahydrofuran and 3 5 ml of methanol was treated with 0 3 ml of an aqueous 2 N sodium hydroxide solution and stirred overnight at room temperature. The solvent was evaporated and the residue was partitioned between 1 1 ethyl acetate/tetrahydrofuran and 0.2 N HCl solution. After another extraction with 1 1 ethyl acetate/tetrahydrofuran, the extracts were washed with brine dried over magnesium sulfate and concentrated to afford (27 mg) of the title compound mp. 253-254°C. ESIMS m/e 389 (M++1), 387 (M+-1) NMR (300 MHz, d6-OMSO); & 12.83 (br, 1H); 7.75 (br. 1H), 7.53 (d. J=8.2, 1H), 7.41-7.34 (m. 2H), 7.28-7.17 (m. 3H); 7.07 (m. 2H), 6.90 (d. J=7.2, 2H), 6.49 (d. J=8.1, 1H), 5.89 (s. 2H), 4.79 (s. 2H), 2.52 (s. 3H).

Example 51

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Preparation of [9-benzyl-4-carbamoyl-8-fluoro-1 2,3, 4-tetrahydrocarbazol-5-yl]oxyacetic acid

A Preparation of (2-chloro-4-fluorophenyl)- ethyl carbonate

[0418] A solution of 19 16 g of 2-chloro-4-fluorophenol in 65 4 ml of 2 N aqueous sodium hydroxide solution was cooled in an ice bath and treated dropwise with 16 3 ml of ethyl chloroformate. After stirring at room temperature overnight, the two-phase reaction mixture was diluted with 100 ml of water and extracted with 300 ml of a 1·1 pentane/ ether mixture. The extract was washed three times with 0 02 N sodium hydroxide solution, water and then brine. After drying and evaporation. 27 63 g (97%) of the subtitle compound were obtained NMR (300 MHz, CDCl₃) δ7 23-7 18 (m 2H) 7 00 (dt. J=8.4. 2 7 1H), 4.35 (q J=7 1 2H) 1 40 (t. J=7 1. 3H)

B Preparation of (2-chloro-4-fluoro-5-nitrophenyl)-ethyl carbonate

[0419] A solution of 27 63 g of (2-chloro-4-fluorophenyl)-ethyl carbonate in 60 ml of dichloromethane was cooled in an ice bath and treated dropwise with 31 86 g of a 12 mixture of fuming nitric acid (90%) and concentrated sulfuric acid. The reaction was stirred for 2 hours at room temperature and then cooled with ice and treated with another 4.5 g of the same nitrating mixture. The reaction was stirred overnight at room temperature, poured into 200 ml of ice and water, and extracted twice with dichloromethane. The extracts were washed with water and then with brine, dried over magnesium sulfate and concentrated to afford 33 01 g (99%) of the subtitle compound, mp. 50-51 C.

Elemental Analyses					
Calculated	C 41 01.	H 2.68.	N 5 31.	CI 13 45	
				CI 13.71	

C Preparation of 2-chloro-4-fluoro-5-nitroanisole

[0420] A solution of 15 0 g of (2-chloro-4-fluoro-5-nitrophenyl)- ethyl carbonate in 100 ml of dimethyl formamide was treated with 18 6 g of cesium carbonate. 7.1 ml of iodomethane and 7 ml f methanol and stirred overnight at room temperature. The reaction mixture was poured into water and extracted twic with eth r. The extracts were washed twic with water and then with brine dired over magnesium sulfat, and concentrated to afford 11 4g of the subtitle

compound. mp 69-70°C Ex 57, C.

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Elemental Analyses					
Calculated	C 40.90;	H 2 45.	N 6.81;	CI 17 25	
				CI 17.44	

D Preparation of 2-fluoro-5-methoxyaniline

[0421] A solution of 5 63 g of 2-chloro-4-fluoro-5-nitroanisole in 90 ml of ethanol and 5 ml of triethylamine was hydrogenated at room temperature under 60 pounds per square inch with 1.0 g of 5% palladium on carbon for four hours. The catalyst was filtered off and the solvent was evaporated. The residue was slurried in chloroform and filtered thourough a plug of silica gel and then evaporated. This residue was chromatographed on silica gel using hexane/ chloroform mixtures to afford 2 77 g (72%) of the subtitle compound. mp. 253-254°C. NMR (300 MHz, CDCl₃): 8 6 88 (dd, J=10 6, 8 9, 1H): 6 32 (dd. J=7 4, 3 0, 1H). 6.20 (dt. J=8 9, 3.2, 1H); 3 73 (s, 3H): 3 72 (br. 2H).

E. Preparation of N-benzyl-2-fluoro-5-methoxyaniline

[0422] This procedure was patterned after that of Tietze and Grote. Chem Ber 126(12), 2733 (1993). A solution of 2.73 g of 2-fluoro-5-methoxyaniline and 2.67 g of benzaldehyde in 48 ml of methanol was treated with 3.43 g of zinc chloride and then cooled in an ice bath. Sodium cyanoborohydride (1 58 g) was added in small poroom temperature ions over 30 minutes and the reaction was stirred for five hours at room temperature. After evaporation of the solvent, the residue was sturred in 40 ml of 1 N sodium hydroxide solution and then extracted twice with either. The extracts were washed with water and then with brine, dried over magnesium sulfate and concentrated. The residue was recrystallized from hexane to afford 2 61 g and the mother liquors were chromatographed on silica get using 20 1 hexane/ether to afford another 1.4 g of the subtitle compound (90%) mp. 56-58°C.

Elemental Analyses				
Calculated	C 72 71.	H 6 10:	N 6 06	
Found	C 72.51.	H 6.06;	N 5 99	

F Preparation of ethyl 9-benzyl-5-methoxy-8-fluoro-1,2,3.4-tetrahydrocarbazole-4-carboxylate

[0423] A solution of 0 62 g of N-benzyl-2-fluoro-5-methoxyaniline in 20 ml of dry tetrahydrofuran was cooled in an ice bath and treated with 11 3 ml of 0.5 M potassium bis(trimethylsilyl)amide in toluene. After stirring for 30 minutes, 0.74 g of 2-carboethoxy-6-bromocyclohexanone (Sheehan and Mumaw, JACS, 72, 2127 (1950)) in 4 ml of tetrahydrofuran was added and the reaction was allowed to warm slowly to room temperature over two hours. The reaction was quenched with saturated ammonium chloride solution and extracted twice with ether. The extracts were washed with water and then with brine, dried over magnesium sulfate and concentrated. This residue was chromatographed on silica gel using hexane/ ether mixtures to afford 0.796 g (74%) of N-alkylated intermediate diastereomers. This mixture was refluxed in 20 ml of benzene with 0.99 g of zinc chloride overnight. The solvent was evaporated and the residue was partitioned between 25 ml of 1 N HCl and 25 ml of ethyl acetate and then extracted once more with ethyl acetate. The organic layers were washed with water and then brine, dried over magnesium sulfate and concentrated to afford 0.734 g (96%) of the subtitled compound. ESIMS m/e 382 (M*+1)

Elemental Analyses				
Calculated	C 72.42.	H 6.34;	N 3 67	
Found	C 72 20,	H 6 26;	N 3 70	

G Preparation of 9-benzyl-5-methoxy-8-fluoro-1,2,3,4-tetrahydrocarbazole-4-carboxamide

[0424] Ethyl 9-benzyl-5-methoxy-8-fluoro-1,2,3.4-tetrahydrocarbazole-4-carboxylate (0.722 g) was treated similarly as described in Example 49, Part C and chromatographed on silica gel using 1% methanol in dichloromethane to afford 0.482 g (72%) of the subtitle compound ESIMS m/e 353 (M++1)

Elemental Analyses					
Calculated	C 71 57.	H 6 01:	N 7 95		
Found	C 71 42	H 5.83:	N 7 75		

H Preparation of [9-benzyl-4-carbamoyl-8-fluoro-1.2,3.4-tetrahydrocarbazol-5-yl]oxyacetic acid methyl ester

[0425] 9-Benzyl-5-methoxy-8-fluoro-1,2.3,4-tetrahydrocarbazole-4-carboxamide (0 170 g) was converted similarly as described in Example 49. Part D and chromatographed on silica gel using methanbl/ 0-1% in dichloromethane to afford 65 mg (50%) of the subtitle compound. mp 183-185°C

Elemental Analyses					
Calculated	C 67 31 ⁻	H 5 65.	N 6.82		
Found	C 67 58	H 5.48.	N 6 95		

I Preparation of [9-benzyl-4-carbamoyl-8-fluoro-1,2,3,4-tetrahydrocarbazol-5-yl]oxyacetic acid

[9-Benzyl-4-carbamoyl-8-fluoro-1 2,3.4-tetrahydrocarbazol-5-yl]oxyacetic acid methyl ester (71 mg) was hydrolyzed similarly as described in Example 50. Part D to afford 65 mg of the title compound ESIMS *m/e* 397 (M++1), 395 (M+1) NMR (300 MHz, d⁶-DMSO) ô 13.03 (br. 1H). 7 31-7.19 (m. 3H): 6 97 (d. J=7 4 2H), 6 95 (br. 1H). 6 70 (d. J=3 8, 1H). 6 67 (dd. J=12.4 3 9, 1H). 6 28 (dd. J=8 5, 2 6. 1H) 5.39 (ABq. 2H): 4 64 (s. 2H). 3 92 (br. 1H): 2.71 (m, 1H). 2.44 (m. 1H): 2 02 (m. 2H). 1 76 (m. 2H)

Example 52

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Preparation of [9-benzyl-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid

A Preparation of 9-benzyl-5-carbamoyl-4-methoxy-1-fluorocarbazole

[0427] A solution of 0 458 g of 9-benzyl-5-methoxy-8-fluoro-1.2.3.4-tetrahydrocarbazole-4-carboxamide in 13 ml of dry dioxane under nitrogen was treated with 0.59 g of 2.3-dichloro-5.6-dicyano-1.4-benzoquinone and refluxed for one hour. The reaction mixture was cooled and filtered and the precipitate was washed with 15 ml of dioxane. The filtrate and washing were poured into saturated sodium bicarbonate solution and extracted three times with ethyl acetate. The extracts were washed with saturated sodium bicarbonate, with water and then with brine, dried over magnesium sulfate and concentrated. This residue was chromatographed on silicated using dichloromethane/ 0-2% methanol to afford 0.45 g of subtitle compound. ESIMS m/e 349 (M*+1)

Elemental Analyses				
Calculated	C 72.42.	H 4 92	N 8 04	
Found	C 72 35:	H 4 81	N 7 88	

B. Preparation of [9-benzyl-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester

[0428] A solution of 0.45 g of 9-benzyl-5-carbamoyl-4-methoxy-1-fluorocarbazole in 25 ml of dichloromethane was cooled in an ice bath treated dropwise with 12 ml of 1.0 M boron tribromide solution in dichloromethane. The reaction was allowed to warm to room temperature slowly over 2 hours and then quenched by pouring into ice and then adding 50 ml of 1 N HCI. The mixture was extracted with dichloromethane (3x200 ml) and the extracts were dried over magnesium sulfate and concentrated to afford 0.35 g (78%) of the demethylated intermediate. This intermediate (0.215 g) was alkylated and purified similarly to Example GH1, Part D to afford 0.166 g (64%) of the subtitle compound mp. 190-191°C

Elemental Analyses				
Calculated	C 67 97	H 4 71	N 6 89	
Found	C 67 81.	H 4 94:	N 6 96	

C. Preparation of [9-benzyl-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid

[0429] (9-Benzyl-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid methyl ester (56 mg) was hydrolyzed and isolated similarly as described in Example 50, Part D to afford 54 mg of the title compound FDMS *m/e* 392 (M+). ESIMS *m/e* 393 (M++1), 391 (M+-1) NMR (300 MHz, d⁶-DMSO): δ 12.92 (br, 1H): 7 70 (m. 2H); 7 45 (t. J=7.5. 1H). 7 39 (br. 1H); 7 28-7.17 (m. 4H), 7 12 (d, J=7 2. 1H): 7 07 (d, J=7 0. 2H): 6 51 (dd, J=8 8, 2 7, 1H): 5 77 (s, 2H): 4 80 (s. 2H)

Elemental A			
Calculated	C 67 34.	H 4.37,	N 7 14
Found	C 66.92.	H 4.49:	N 6.77

Example 53

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ΔO

Preparation of [9-benzyl-4-carbamoyl-8-chloro-1.2.3.4-tetrahydrocarbazol-5-yl]oxyacetic acid

A. Preparation of ethyl 9-benzyl-5-methoxy-8-chloro-1,2,3.4-tetrahydrocarbazole-4-carboxylate

[0430] N-benzyl-2-chloro-5-methoxyanılıne was prepared similarly to Example 51, Part E. A solution of 2 07 g of N-benzyl-2-chloro-5-methoxyanıline in 60 ml of dry tetrahydrofuran was converted similarly to Example GH3, Part F and chromatographed on silica gel using 15 1 hexane/ethyl acetate to afford 1.65 g (50%) of the subtitle compound Ex 59. A. ESIMS *m/e* 398 (M⁻+1) NMR (300 MHz CDCl₃) δ 7 29-7 19 (m, 3H), 6 92 (m, 3H), 6 36 (d J=8 4, 1H); 5 87 (d, J=17 4, 1H), 5 53 (d, J=17.3, 1H); 4 16 m, 3H), 3.81 (s, 3H), 2.66 (dt, J=16.3, 5.4, 1H), 2.49 (dt, J=16.6, 6 6, 1H), 2 05 (m, 2H); 1 98-1 79 (m, 2H); 1.25 (t, 3H)

B Preparation of 9-benzyl-5-methoxy-8-chloro-1,2.3,4-tetrahydrocarbazole-4-carboxamide

[0431] Ethyl 9-benzyl-5-methoxy-8-chloro-1.2,3,4-tetrahydrocarbazole-4-carboxylate (1 65g) was converted similarly to Example 51, Part G to afford 1 54 g (100%) of the subtitle compound Ex 59, B mp 205-8°C ESIMS *m/e* 369 (M*+1)

C. Preparation of [9-benzyl-4-carbamoyl-8-chloro-1,2,3,4-tetrahydrocarbazol-5-yl]oxyacetic acid methyl ester

[0432] 9-Benzyl-5-methoxy-8-chloro-1,2,3,4-tetrahydrocarbazole-4-carboxamide (0 405 g) was converted similarly to Example 51, Part H and chromatographed on silica gel using dichlormethane/0-1 5% methanol to afford 0 248 g (53%) of the sublitle compound. Ex. 59. C. m.p. 185-186°C

Elemental Analyses				
Calculated	C 64 71,	H 5.43.	N 6.56	
Found	C 64 98,	H 5 39:	N 6.67	

D. Preparation of [9-benzyl-4-carbamoyl-8-chloro-1,2,3,4-tetrahydrocarbazol-5-yl]oxyacetic acid

[0433] [9-Benzyl-4-carbamoyl-8-chloro-1,2.3,4-tetrahydrocarbazol-5-yl]oxyacetic acid methyl ester (58 mg) was hydrolyzed similarly as described in Example 49, Part E to afford 54 mg of the title compound Ex 59, D ESIMS *m/e* 413 (M⁺+1), 411 (M⁺-1) NMR (300 MHz. σ⁸-DMSO) δ 13.05 (br, 1H): 7 30-7.18 (m, 3H): 6.90 (d+m. J=7.6, 4H): 6 73 (br. IH): 6.39 (d. J=8 3, IH). 5 77 and 5 58 (ABq, J=17.5, 2H): 4 67 (s, 2H); 3.95 (br, 1H). 2 66 (m. 1H): 2.43 (m, 1H), 2 00 (m, 2H): 1 76 (m, 2H).

Elemental Analyses					
Calculated	C 64 00;	H 5.13;	N 6 78;	CI 8.59	
Found	C 62.82;	H 5.34;	N 6.22;	CI 7.99	

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Exampl 54

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Preparation of [9-benzyl-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid

A Preparation of 9-benzyl-5-carbamoyl-4-methoxy-1-chlorocarbazole

[0434] A solution of 1 0 g of 9-benzyl-5-methoxy-8-methyl-1.2.3.4-tetrahydrocarbazole-4-carboxamide was oxidized similarly to Example 51 Part A and chromatographed on silica gel using dichloromethane/ 0-1% methanol to afford 0.66 g (67%) of the subtitle compound FDMS m/e 364 (M+)

Elemental Analyses					
Calculated	C 69 14:	H 4 70.	N 7.68,	CI 9 72	
Found	C 69 40.	H 4 64	N 7 49.	CI 9 93	

B Preparation of 5-carbamoyl-4-hydroxy-1-chlorocarbazole

[0435] A solution of 0 66 g of 9-benzyl-5-carbamoyl-4-methoxy-1-chlorocarbazole in 40 ml of dichloromethane was cooled in an ice bath treated dropwise with 14 ml of 1 0 M boron tribromide solution in dichloromethane. The reaction was allowed to warm to room temperature slowly over 2 hours and then quenched by pouring into ice and then adding 50 ml of 1 N HCI. The mixture was extracted with dichloromethane (3x200 ml) and the extracts were washed with brine, dried with magnesium sulfate and concentrated. The aqueous layers exhibited a precipitate and was then extracted twice with ethyl acetate, washed with brine, dried with magnesium sulfate and concentrated to afford 0.287 g of the subtitle compound. The first residue was chromatographed on silica gel using 0.5% methanol in dichloromethane to afford another 93 mg of the subtitle compound. (total yield 80%) ESIMS m/e 259 (M*-1) NMR (300 MHz, df-DMSO). δ 11.79 (s, 1H); 10.76 (s, 1H), 8.87 (br s, 1H); 8.41 (br s, 1H); 7.77 (t, J=4.6, 1H), 7.48 (d, J=4.2, 2H); 7.34 (d, J=8.5, 1H), 6.54 (d, J=8.5, 1H).

C. Preparation of [5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester

[0436] A solution of 0.28 g of 5-carbamoyl-4-hydroxy-1-chlorocarbazole in 6 ml of tetrahydrofuran was added to 0.043 g of sodium hydride (60% in mineral oil) in 1 ml of tetrahydrofuran and stirred for 60 minutes at room temperature Methyl bromoacetate (0.11 ml) was then added and the reaction was stirred overnight. The reaction mixture was poured into 20 ml of saturated ammonium chloride solution and then extracted twice with ethyl acetate. The extracts were washed with water and then with brine, dried over magnesium sulfate and concentrated. The residue was chromatographed on silica gel eluting with chloroform and then 2.1 chloroform/ethyl acetate to afford 0.16 g (45%) of the subtitle compound ESIMS m/e 333 (M++1). 335 (M++3). 331 (M+-1) NMR (300 MHz. d⁶-DMSO). 8.11.73 (s. 1H). 7.56 (d. J=8.1, 1H). 7.50 (br.s. 1H). 7.43-7.35 (m. 2H). 7.18 (br.s. 1H). 7.06 (d. J=7.8.1H); 6.56 (d. J=8.6.1H)· 4.90 (s. 2H); 3.70 (s. 3H)

D. Preparation of [9-benzyl-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester

[0437] A solution of 78 mg of [5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester in 0.8 ml of dry dimethylformamide was added to 10 mg sodium hydride (60% in mineral oil) in 0.2 ml of dimethylformamide and stirred for 15 minutes. Benzyl bromide (0.031 ml) was then added and the reaction was stirred overnight. The reaction mixture was poured into water and acidified with 1 ml of 1.N HCl solution and extracted twice with ethyl acetate. The extracts were washed with water (3x) and then with brine, dried over magnesium sulfate and concentrated. The residue was chromatographed on silica gel eluting with methanol/0-2% in dichloromethane to afford 40 mg of the subtitle compound ESIMS m/e 423 (M*+1) 425 (M*+3) NMR (300 MHz, CDCl₃) 8.7 43-7 22 (m, 7H), 7.06 (d. J=7.3, 2H) 6.51 (d. J=8.6, 1H), 6.05 (s. 2H), 5.80 (br, 2H), 4.88 (s, 2H); 3.83 (s, 3H).

E. Preparation of [9-benzyl-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid

[0438] [9-Benzyl-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester (15 mg) was hydrolyzed similarly as described in Example 50. Part D to afford 14 mg of the title compound mp. 240-2°C ESIMS m/e 409 (M*+1), 411 (M*+3) 407 (M*-1) NMR (300 MHz. d⁶-DMSO): δ 12 94 (br, 1H) 7.70 (br, 1H), 7 61 (d. J=8.3, 1H), 7 43 (t, J=7.8, 1H), 7 36 (m. 2H): 7.28-7.19 (m. 3H), 7 13 (d. J=7.2, 1H), 6 99 (d. J=7.4, 2H): δ 63 (d. J=8.6, 1H), δ 08 (s, 2H), 4 83 (s, 2H).

EXAMPLE 55

Preparation of [9-[(Cyclohexyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid

[0439]

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A 9-[(Cyclohexyl)methyl]-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one

[0440] A 0 °C suspension of 5-carbomethoxy-1 2-dihydro-9H-carbazol-4(3H)-one (1 0 g, 4 11 mmol), a catalytic amount of NaI (ca. 10 mg) and K_2CO_3 (1.1 g, 8 22 mmol) in 10 mL of DMF was treated with cyclohexylmethyl bromide (0 631 mL, 4 52 mmol). After stirring overnight at ambient temperature, an additional 0 63 mL cyclohexylmethylbromide was added and the resulting mixture was heated at 60 °C for 3 hours. The mixture was poured into H_2O (30 mL) and extracted with EtOAc (2 x 25 mL). The combined organic layers were washed with H_2O (4 x 50 mL), dried over anhydrous Na_2SO_4 , filtered and concentrated *in vacuo*. The residue was purified by radial chromatography on silica gel (elution with a gradient of 20% to 40% EtOAc/hexanes) to afford 1 36 g (4 01 mmol; 97%) of 9-{(cyclohexyl)methyl}5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one as a white foam. IR (CHCl₃. cm⁻¹) 3011, 2932, 2857, 1725, 1649, 1469, 1446, 1288 and 1120 MS (ES) m/e 340 (M+1), 453 (M+AcO⁻). FAB HRMS m/e. Calcd for $C_2 H_{26}NO_3$, 340 1913. Found: 340,1916 (M+1).

Elemental Analyses for C ₂₁ H ₂₅ NO ₃ .					
Calculated	C, 74 31.	H, 7 42.	N, 4.13		
Found	C. 72 65	H. 7 39.	N, 4 70		

40 B 9-[(Cyclohexyl)methyl]-4-hydroxy-5-carbomethoxy carbazole

[0441] A solution of 9-[(cyclohexyl)methyl]-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one (1.16 g. 3 42 mmol) and 2,3-dichloro-5.6-dicyano-1,4-benzoquinone (853 mg. 3 76 mmol) in 20 mL of toluene was heated at 80 °C for 3 hours. The mixture was purified directly by column chromatography on silica gel (elution with CH₂Cl₂) to afford 259 mg (0 768 mmol, 22%) of 9-[(cyclohexyl)methyl]-4-hydroxy-5-carbomethoxy carbazole as a yellow oil which slowly solidified. MS (ES) m/e 336 (M+1), 336 (M-1).

Elemental Analyses for C ₂₁ H ₂₃ NO ₃ ·			
Calculated	C, 74.75;	H, 6 87:	N, 4.15.
Found	C, 74.95;	H, 6 99;	N, 4 42.

C. 9-[(Cyclohexyl)methyl]-4-hydroxy-5-carbamoyl carbazole

[0442] A solution of 9-((cyclohexyl)methyl)-4-hydroxy-5-carbomethoxy carbazole (205 mg, 0.608 mmol) in 5 mL of THF and 20 mL of concentrated aqueous ammonium hydroxide was treated with a stream of NH₃ gas t ensure saturation. The r action vessel was capped, and the mixture was heated at 35 °C with stirring until tlc indicated complete consumption of starting material (20 hrs). The THF was vaporated and the aqueous layer was filtered. The green

solid precipitate was dissolved in THF and purified by radial chromatography on silica g I (elution with CH_2CI_2). The resultant foam was triturated with ether to afford 138 mg (70%) of the title compound as an off-white solid. IR (KBr cm⁻¹) 3418, 3200, 3131–1629, 1600, 1443, 1261–778 'FAB HRMS m/e, Calcd for $C_{20}H_{23}N_2O_2$ ' 323 1760. Found, 323 1760 (M+1)

D [9-[(Cyclohexyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid. methyl ester

[0443] A mixture of 9-[(cyclohexyl)methyl]-4-hydroxy-5-carbamoyl carbazole (60 mg, 0 186 mmol) and Cs_2CO_3 (150 mg. 0 460 mmol) in 2 mL of DMF was treated with methyl bromoacetate (0 023 mL, 0 242 mmol). The reaction was stirred for 2 hours at ambient temperature, then it was diluted with EtOAc and H_2O (10 mL each). The aqueous layer was saturated with solid NaCl and extracted with EtOAc (2 x 10 mL). The combined organic layers were washed with H_2O (2 x 25 mL), dried over anhydrous Na_2SO_4 . filtered and concentrated *in vacuo*. Purification of the crude residue by flash chromatography on silica gel (elution with a gradient of 0% to 90% EtOAc/nexanes) followed by trituration with Et₂O/EtOAc afforded 45 mg (0.114 mmol 61%) of title compound as an off-white solid. MS (ES) m/e 395 (M+1), 378 (M+H-NH₃), 453 (M+AcO).

Elemental Analyses for C ₂₃ H ₂₆ N ₂ O ₄ 0.3H ₂ O				
Calculated C, 69.08. H. 6 71 N. 7 01				
Found	C. 69 13.	H 671.	N. 7 09	

E. [9-[(Cyclohexyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid

[0444] A slurry of [9-[(cyclohexyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid. methyl ester (20 mg. 0.051 mmol) in 0.3 mL of THF and 0.1 mL of MeOH was treated with 0.1 mL of 1 N aq LiOH (0.1 mmol), and the mixture stirred at room temperature for 2 h. The reaction was acidified with 0.2 N HCl. and the organics were removed in vacuo. The white precipitate was filtered away from the aqueous layer and rinsed with Et₂O to afford 16 mg (0.042 mmol. 83%) the title acid as a white powder MS (ES) m/s 381 (M+1). 364 (M+H-NH₃), 379 (M-1)

Elemental Analyses for C ₂₂ H ₂₄ N ₂ O ₄			
Calculated	C. 69.46.	H, 6 36.	N, 7 36.
	1 _	H, 6 35.	

EXAMPLE 56

Preparation of [9-[(Cyclopentyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid

[0445]

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A 9-[(Cyclopentyl)methyl]-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one

[0446] A suspension of 5-carbomethoxy-1.2-dihydro-9H-carbazol-4(3H)-one (820 g. 3 37 mmol), a catalytic amount

of NaI (ca. 10 mg) and K₂CO₃ (930 mg. 6 74 mmol) in 6 mL of DMF was treated with cyclopentylmethyl chloride (*JOC*, 1964, 29, 421-423, 400 mg. 3 37 mmol). After stirring overnight at ambient temperature, an additional 800 mg of cyclopentylmethyl chloride and 1 g of NaI were added, and the resulting mixture was heated at 80 °C overnight. An additional 600 mg of cyclopentylmethyl chloride and 2.2 g of Ce₂CO₃ were added, and the reaction mixture was heated at 80 °C for 24 h. An additional 1.6 g of cyclopentylmethyl chloride was added, and the reaction mixture was heated at 80 °C for 3 d The mixture was poured into H₂O (30 mL) and extracted with EtOAc (3 x 10 mL). The combined organic layers were dried over anhydrous Na₂SO₄, filtered, and concentrated *in vacuo*. The residue was purified by radial chromatography on silica gel (elution with gradient of 10% to 40% EtOAc/hexanes) to afford 775 mg (2 38 mmol, 71%) of 9-{(cyclopentyl)methyl]-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one as a brown foam MS (ES) m/e 326 (M+1), 384 (M+AcO)

Elemental Analyses for C ₂₀ H ₂₃ NO ₃ :			
Calculated	C. 73 82:	H. 7 12.	N 4 30.
Found	C. 74 12,	H. 721.	N 445

B 9-[(Cyclopentyl)methyl]-4-hydroxy-5-carbomethoxy carbazole

[0447] A solution of 9-[(cyclopentyl)methyl]-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one (730 mg, 2.24 mmol) and 2,3-dichloro-5.6-dicyano-1.4-benzoquinone (560 mg, 2.47 mmol) in 20 mL of toluene was heated at 80 °C for 3 hours. The mixture was purified directly by column chromatography on silica gel (elution with CH₂Cl₂) to afford 140 mg (0.433 mmol⁻ 19%) of 9-[(cyclopentyl)methyl]-4-hydroxy-5-carbomethoxy carbazole as a yellow oil which slowly solidified MS (ES) m/e 324 (M+1), 322 (M-1)

Elemental Analyses for C ₂₀ H ₂₁ NO ₃ 0 3H ₂ O.			
Calculated	C, 73 06	H. 6.62;	N 4 26
Found	C, 73 19	H, 6 44	N 4.40

C 9-[(Cyclopentyl)methyl]-4-hydroxy-5-carbamoyl carbazole

[0448] A solution of 9-[(cyclopentyl)methyl]-4-hydroxy-5-carbomethoxy carbazole (110 mg. 0.34 mmol) in 3 mL of THF and 20 mL ofconcentrated aqueous ammonium hydroxide was treated with a stream of NH₃ gas to ensure saturation. The reaction vessel was capped, and the mixture heated to 35 °C with stirring until tic indicated complete consumption of starting material (20 h) The THF was evaporated, and the aqueous layer was filtered. The resultant solid was triturated with ether to afford 50 mg (0.162: 48%) of the title compound as a greenish-white solid. IR (KBr. cm⁻¹) 3416, 3199, 3126, 1630, 1599 1442, 1262, 778 'FAB HRMS m/e, Calcd for C₂₀H₂₁N₂O₂: 309.1603 Found: 309 1607 (M+1).'

D. [9-{(Cyclopentyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid. methyl ester

[0449] A mixture of 9-[(cyclopentyl)methyl]-4-hydroxy-5-carbamoyl carbazole (45 mg, 0.146 mmol) and $\rm Cs_2CO_3$ (120 mg; 0.365 mmol) in 2 mL of DMF was treated with methyl bromoacetate (0.018 mL; 0.19 mmol). The reaction was stirred for 2 hours at ambient temperature, then it was diluted with EtOAc and $\rm H_2O$ (10 mL each). The aqueous layer was saturated with solid NaCl extracted with EtOAc (2 x 10 mL). The combined organic layers were washed with $\rm H_2O$ (2 x 25 mL), dried over anhydrous $\rm Na_2SO_4$, filtered and concentrated in vacuo. Purification of the crude residue by flash chromatography on silica gel (elution with a gradient of 0% to 100% EtOAc/hexanes) followed by trituration with Et₂O/EtOAc afforded 26 mg (0.0683 mmol: 47%) of title compound as a tan solid. MS (ES) m/e 381 (M+1). 364 (M+H-NH₃), 439 (M+AcO-)

Elemental Analyses for C ₂₃ H ₂₆ N ₂ O ₄ 0.1H ₂ O:			
Calculated	C. 69 13.	H. 6.38,	N, 7.33
Found	C. 68 99:	H. 6.39:	N, 7 41

E. [9-[(Cyclopentyl)methyl]-5-carbamoylcarbazol-4-yl]oxyac tic acid

[0450] A slurry of [9-[(cyclopentyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid, methyl ester (20 mg, 0 065

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mmol) in 0.3 mL of THF and 0.1 mL of MeOH was treated with 0.1 mL of 1.N aq LiOH (0.1 mmol), and the mixture stirred at room temperature for 2 hours. The reaction was acidified with 0.2 N HCl, and the organics were removed in vacuo. The white precipitate was filtered away from the aqueous layer and rinsed with Et₂O to afford 15 mg (0.0409 mmol, 63%) the title acid as a white powder MS (ES) m/e 367 (M+1), 350 (M+H-NH₃), 365 (M-1)

Elemental Analyses for C ₂₁ H ₂₂ N ₂ O ₄ 0.3H ₂ O			
Calculated	C. 67 84.	H. 6 13,	N, 7.53
Found	C 67 73	H, 5 97:	N, 7 70

Example 57

[5-carbamoyl-9-(phenylmethyl)-2-(2-thienyl)carbazol-4-yl]oxyacetic acid

[0451]

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A Preparation of 3-(2-bromo-3-carbomethoxyanilino)-5-(2-thienyl)cyclohex-2-en-1-one

[0452]

OMe Br

[0453] Prepared in 59% yield by the method of Example 17C $\,^{1}$ H-NMR (CDCl₃): δ 2 63 (dd, J = 16 5. 118 Hz. 1H), 2 78-2 96 (m 3H), 3.71-3 80 (m, 1H), 3 94 (s, 3H), 5.61 (s, 1H) 6.23 (br s. 1H), 6 93 (d. J= 3 5 Hz. 1H) 6 97-6 99 (m, 1H) 7 21 (d J= 5 2 Hz, 1H), 7 34 (br t. J= 7.8 Hz, 1H). 7 55 (d. J= 7 8 Hz. 2H).

H

B. Preparation of 5-carbomethoxy-1,2-dihydro-2-(2-thienyl)-9H-carbaz I-4(3H)-one

[0454]

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O OMe

15 [0455] Prepared in 85% yield by the method of Example 17D ¹H-NMR (CDCl₃) δ 2 73 (dd. J=16.3, 11 8 Hz. 1H),
 2.91 (dd, J= 16.4, 4 0 Hz, 1H), 3.03 (dd, J= 16.6, 10 8 Hz, 1H). 3 24 (dd, J= 16.6, 4 5 Hz, 1H). 3.75-3.78 (m, 1H).
 4.03 (s 3H), 6.88 (br s, 1H) 6 93-6 96 (m, 1H), 7.17 (d. J= 5 0 Hz, 1H), 7.22-7 26 (m. 1H). 7 36 (d. J= 7 4 Hz, 1H).
 7.40 (d. J= 8 0 Hz 1H).9.17 (br s, 1H)

C Preparation of 5-carbomethoxy-1.2-dihydro-9-(phenylmethyl)-2-(2-thienyl)carbazol-4(3H)-one

[0456]

OMe is

[0457] Prepared in 88% yield by the method of Example 17E. 1 H-NMR (CDCl₃): δ 2 84 (dd, J = 16.5, 11.6 Hz, 1H), 2.97-3.10 (m, 2H), 3.34 (dd, J = 16.5, 4.5 Hz, 1H), 3 89-3 96 (m. 1H), 4 06 (s. 3H), 5 38 (s, 2H), 6 89-7 00 (m. 4H), 7.18 (d, \bot 5 3 Hz, 1H) 7 25-7 41 (m, 6H)

40 D. Preparation of 5-carbomethoxy-4-hydroxy-9-(phenylmethyl)-2-(2-thienyl)carbazole

[0458]

OME OH S

[0459] Prepared in 76% yield by the method (b) of Example 17F. ¹H-NMR (CDCl₃): δ 4 11 (s, 3H), 5 55 (s, 2H), 7.07-7 12 (m, 3H), 7 16 (s, 2H), 7.24-7.30 (m, 4H), 7.37-7 42 (m, 2H), 7.56 (d, ≠8.1 Hz, 1H), 8.01 (d. ≠7 6 Hz. 1H).

E Preparation of 5-carbamoyl-4-hydroxy-9-(phenylmethyl)-2-(2-thienyl)carbazole

[0460]

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O NH₂ OH S

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[0461] Prepared in 85% yield by the method of Example 17G 1 H-NMR (DMSO-d₆) $^{\circ}$ $^{\circ}$ $^{\circ}$ 5 73 (s, 2H), 6 87 (s. 1H), 7 08-7 26 (m 6H) 7 41-7 56 (m 5H), 7.76 (br t. J= 4 5 Hz, 1H), 8 39 (s, 1H), 8.83 (s, 1H), 10 76 (s, 1H)

F Preparation of [5-carbamoyl-9-(phenylmethyl)-2-(2-thienyl)carbazol-4-yl]oxyacetic acid methyl ester

[0462]

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ONH₂ OMe

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[0463] Prepared in 92% yield by the method of Example 17H 1 H-NMR (DMSO-d₆) δ 3 70 (s 3H), 4 99 (s, 2H) 5 71 (s. 2H), 6 85 (s. 1H), 7 04 (d. J= 7 2 Hz, 1H), 7 11-7 26 (m, 7H), 7 35 (br t, J= 7.7 Hz, 1H), 7 50-7 57 (m, 5H)

G Preparation of [5-carbamoyl-9-(phenylmethyl)-2- (2-thienyl)carbazol-4-yl]oxyacetic acid

[0464]

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ONH₂ OH

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[0465] Prepared in 98% yield by the m thod of Exampl 17I 1 H-NMR (DMSO-d₆) δ 4.90 (s, 2H), 5.72 (s, 2H), 6.85

(s, 1H), 7 04-7 26 (m, 7H), 7.33-7 38 (m, 2H), 7.50-7 59 (m, 4H), 7.71 (s, 1H), 12.99 (br s, 1H)

Example 58

5 [5-carbamoyl-9-(phenylmethyl)-2-[[(propen-3-yl)oxy]methyl]carbazol-4-yl]oxyacetic acid

[0466]

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OH OH

A. Preparation of 5-carbornethoxy-1.2-dihydro-9-(phenylmethyl)-2-[[(propen-3-yl)oxy]methyl]carbazol-4(3H)-one

[0467]

[0468] Sodium hydride (63 4 mg 1 58 mmol) was added to a stirred anhydrous DMF (7 mL) solution containing the compound of Example 19C (480 mg, 1 32 mmol) and allyl bromide (0 172 mL, 1 98 mmol) under a nitrogen atmosphere. The resultant solution was stirred at ambient temperature for 2 hours. Then the mixture was treated with two drops of acetic acid before it was concentrated in vacuo. The residue was-subject to chromatography on silica (gradient 30-70% ethyl acetate in hexane) to provide the subtitled compound (395 mg. 74%) as a white solid. IR (KBr) 1726. 1654 cm⁻¹: ¹H-NMR (CDCl₃): δ 2 40 (dd, J = 16 5. 11 1 Hz. 1H). 2 57-2 78 (m. 3H), 3.01-3 08 (m. 1H). 3 41 (dd. J = 9.2, 6.9 Hz. 1H), 3.49 (dd. J = 9.2, 4.3 Hz, 1H), 3.95 (d, J = 5.4 Hz, 2H, -CH₂O-). 4.04 (s, 3H, -OCH₃), 5.14-5 27 (m, 2H, =CH₂). 5.32 (s. 2H, -NCH₂-), 5.80-5 92 (m. 1H, -CH=). 6.97-7.02 (m, 2H), 7.20-7.39 (m. 6H); ESIMS m/e 404 (M*+1);

Elemental Analyses for C ₂₅ H ₂₅ NO ₄ .		
Calculated	C. 74.42,	H, 6 25.
Found	C, 74.59.	H, 6 07

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B Preparation of 5-carbom th xy-4-hydroxy-9-(phenylmethyl)-2-[[(propen-3-yl)oxy]methyl]carbazole

[0469]

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OMe OH

[0470] Prepared in a 78% yield by the method (b) of Example 17F IR (CHCl₃) 3200 (br). 1687 cm⁻¹ ¹H-NMR (CDCl₃) δ 4 04 (d. J= 5 7 Hz 2H. -CH₂O-) 4 11 (s. 3H. -OCH₃), 4 63 (s. 2H. -OCH₂-). 5 15-5.31 (m. 2H. =CH₂). 5 55 (s. 2H. -NCH₂-). 5 88-6 02 (m. 1H. -CH=). 6.81 (s. 1H). 6.99 (s. 1H). 7.05-7 09 (m. 2H). 7.22-7 30 (m. 3H), 7 40 (br t. J= 8 0 Hz. 1H) 7 58 (d. J= 8 0 Hz. 1H), € 00 (d. J= 8 0 Hz. 1H). 10 48 (s. 1H. -OH): ESIMS m/e 402 (M+1).

Elemental Analyses for C ₂₅ H ₂₃ NO ₄			
Calculated C, 74.80. H, 5.77			
Found	C. 75.08.	H. 5.78	

C Preparation of 5-carbamoyi-4-hydroxy-9-(phenylmethyl)-2-[[(propen-3-yl)oxy]methyl]carbazole

30 [0471]

ONH₂ OH

[0472] Prepared in a 75% yield by the method of Example 17G IR (KBr) 3420, 3203 (br). 3121, 1632, 1601 cm⁻¹ 1H-NMR (DMSO-d₆) δ 3.95 (d J= 5.3 Hz 2H -CH₂O-), 4.50 (s 2H.-OCH₂-), 5.08-5.25 (m, 2H. =CH₂), 5.65 (s, 2H.-NCH₂-), 5.83-5.93 (m, 1H, -CH=), 6.54 (s, 1H), 7.02-7.05 (m, 3H), 7.14-7.25 (m, 3H), 7.39-7.45 (m, 2H), 7.73-7.77 (m, 1H), 8.34 (s, 1H -NH), 8.79 (s, 1H, -NH), 10.53 (s, 1H, -OH), ESIMS m/e 387 (M⁺+1).

Elemental Analyses for C ₂₄ H ₂₂ N ₂ O ₃		
Calculated	C, 74 59;	H, 5.74.
Found	C. 74 85:	H. 5.93.

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D Preparation of [5-carbamoyl-9-(phenylmethyl)-2-[[(propen-3-yl)oxy]methyl]carbazol-4-yl]oxyacetic acid.

[0473]

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ONH₂ OMe

methyl este

[0474] Prepared in a 90% yield by the method of Example 17H $_{1}$ H (KBr) 3360. 3167. 1758 1639 cm⁻¹. $_{1}$ H-NMH (CDCl₃): $_{2}$ $_{3}$ 83 (s, 3H, -OCH₃). 4 00 (d, J= 5 7 Hz. 2H. -CH₂O-), 4.62 (s, 2H. -OCH₂-). 4 91 (s. 2H. -OCH₂-). 5 16-5.30 (m, 2H, =CH₂). 5.52 (s, 2H, -NCH₂-), 5.88-6.00 (m, 1H, -CH=), 6.05 (br s, 2H. -NH₂), 6 59 (s, 1H), 7.05 (s 1H), 7 06-7.10 (m, 2H), 7.22-7.41 (m, 6H); ESIMS m/e 459 (M++1)

E Preparation of [5-carbamoyl-9-(phenylmethyl)-2-[[(propen-3-yl)oxy]methyl]carbazol-4-yl]oxyacetic acid

²⁵ [0475]

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ONH₂ OH

[0476] Prepared in a 89% yield by the method of Example 17I IR (KBr) 3453, 3421, 3332, 3220, 2580 (br), 1740, 1724, 1631 cm⁻¹; ¹H-NMR (DMSO-d₆); δ 3 95 (d, J= 4 7 Hz. 2H, -CH₂O-), 4.53 (s. 2H, -OCH₂-), 4 79 (s, 2H, -OCH₂-), 5 10-5 26 (m, 2H, =CH₂), 5 64 (s, 2H, -NCH₂-), 5 80-6 00 (m, 1H, -CH=), 6 56 (s, 1H), 7 04-7 40 (m. 9H), 7 57 (d. J= 8 1 Hz. 1H), 7.70 (s, 1H, -NH), 12 94 (br s, 1H, -CO₂H). ESIMS m/e 445 (M⁺+1).

Elemental Analyses for C₂₆H₂₄N₂O₅

Calculated C, 70.26; H, 5.44.

Found C, 70 00, H, 5.42

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Example 59

[5-carbamoyl-9-(phenylmethyl)-2-[(propyloxy)methyl]carbazol-4-yl]oxyacetic acid

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5 [0477]

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ONH₂ OH

20 A. Preparation of [5-carbamoyl-9-(phenylmethyl)-2-[(propyloxy)methyl]carbazol-4-yl]oxyacetic acid, methyl ester

[0478]

OME OME

[0479] Platinum oxide (30 mg) was added to a stirred THF (30 mL) solution containing the compound of Example IID (120 mg, 0 262 mmol) under a nitrogen atmosphere. The mixture was then stirred under a hydrogen atmosphere for 30 minutes. After filtration and concentration, the residue was chromatographed on silica (gradient 0-6% methanol in methylene chloride) to afford the subtitled compound (117 mg. 97%) as a white solid IR (KBr) 3364, 3166, 1758, 1742–1642 cm⁻¹ H-NMR (CDCl₃), δ 0 91 (t. J= 7 4 Hz, 3H, -CH₃) 1 57-1 65 (m, 2H), 3 40 (t. J= 6 6 Hz, 2H -OCH₂-), 3 83 (s, 3H, -OCH₃), 4 60 (s. 2H, -OCH₂-), 4 91 (s. 2H, -OCH₂-), 5 52 (s, 2H, -NCH₂-), 5 95 (br. s. 1H, -NH), 6 06 (br. s, 1H, -NH), 6 58 (s. 1H), 7 04 (s. 1H), 7 07-7 10 (m, 2H), 7.20-7.41 (m, 6H); ESIMS m/e 461 (M*+1)

B Preparation of [5-carbamoyl-9-(phenylmethyl)-2-[(propyloxy)methyl]carbazol-4-yl]oxyacetic acid

[0480]

50 OH OH

[0481] Prepared in a 99% yield by the method of Example 17I IR (KBr) 3458, 3413 3332. 3232. 2500 (br). 1716, 1627 cm $^{-1}$ ¹H-NMR (DMSO-d₆) δ 0.82 (t. J= 7.3 Hz, 3H, -CH₃). 1 45-1 53 (m, 2H). 3.33 (t. J= 6.3 Hz. 2H. -OCH₂-). 4 51 (s. 2H,-CH₂O-) 4 78 (s. 2H, -OCH₂-). 5.64 (s. 2H -NCH₂-), 6 54 (s. 1H), 7 03-7 39 (m, 9H), 7 57 (d. J= 8 2 Hz, 1H), 7.70 (s. 1H, -NH), 12 93 (s. 1H, -CO₂H). ESIMS m/e 447 (M⁺+1) :

Elemental Analyses for C ₂₆ H ₂₆ N ₂ O ₅		
Calculated	C, 69 94.	H. 5 87.
Found	C. 70 00.	H 588.

Example 60

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Preparation of 9-benzyl-7-methoxy-5-((carboxamidomethyl)oxy)-1,2,3.4-tetrahydrocarbazole-4-carboxamide

[0482] To 195mg (0.5mmol) of 9-benzyl-7-methoxy-5-cyanomethyloxy-1,2.3.4-tetrahydrocarbazole-4-carboxamide in 3ml CH₂Cl₂ was added 34mg (0 immol) tetrabutylammonium sulfate. After cooling to 0°C. 0 25ml 30% H₂O₂ and 3ml 20% NaOH were added. The reaction was allowed to warm to room temperature and stirred for 13h. The mixture was diluted with CH₂Cl₂, washed with water, washed with brine, dried over sodium sulfate, and evaporated *in vacuo*. The residue was chromatographed on silica gel eluting with a gradient of 2 to 10% isopropanol in methylene chloride to give the titled product (36 7mg 19%). An analytical sample was crystallized from methanol. MS (ES+) 408

Elemental analysis for C ₂₃ H ₂₅ N ₃ O ₄				
Calculated	C 67 80.	H 6 18,	N 10.31	
Theory	C 67 91;	H 6 17.	N 10.44	

Example 61

Preparation of 9-benzyl-7-methoxy-5-cyanomethyloxy-carbazole-4-carboxamide

[0483] To a stirred solution of 9-benzyl-5-hydroxy-7-methoxycarbazole-4-carboxamide (0.75g. 2.17mmol) in DMF (76ml) and THF (16ml) and added 60% NaH (0 lig, 2.71mmol). After 15 min bromoacetonitrile (0.20ml, 2.93mmol) was added and the reaction was allowed to stir for 4h. The reaction was diluted with EtOAc, extracted with water, then brine, dried (Na₂SO₄), and chromatographed on silica gel using a CH₂Cl₂-EtOAc-methanol gradient to give the titled compound (0.52g, 63%). MS (ES+) 386

i	Elemental analysis for C ₂₃ H ₁₉ N ₃ O _{3:}			
	Calculated	C 71.68:	H 4 97:	N 10 90
1	Theory	C 71 67.	H 4 72:	N 10.65

Example 62 424805

Preparation of 9-benzyl-7-methoxy-5-((1H-tetrazol-5-yl-methyl)oxy)-carbazole-4-carboxamide

[0484] 0.20gram (0.52mmol) of 9-benzyl-7-methoxy-5-cyanomethyloxy-carbazole-4-carboxamide was heated with 2.2ml tri-n-butyl tin hydride at 95°C for 3.5 h. The reaction was then added to a mixture of 56 ml acetonitrile limitetrahydrofuran, and 22ml acetic acid and stirred for 2 h. The mixture was extracted 4 times with hexane and the residue evaporated in vacuo. The residue was chromatographed on silica gel using a CH₂Cl₂-methanol gradient, then 1% HOAc in EtOAc. Crystallization from acetone and hexane afforded the titled compound (0.047g, 21%), MS (ES+) 412, 429

Elemental a	Elemental analysis for C ₂₃ H ₂₄ N ₆ O ₃		
Calculated	C 64.48;	H 4 71:	N 19.61
Theory	C 64.58;	H 4 67:	N 19 68

Example 63

Preparation of 9-benzyl-7-methoxy-5-((carboxamidomethyl)oxy)-carbazole-4-carboxamide

[0485] To 200mg (0 52mmol) of 9-benzyl-7-methoxy-5-cyanomethyloxy-carbazole-4-carboxamide in 6ml CH₂Cl₂ was added 35mg (0 Immol) tetrabutylammonium sulfate. After cooling to 0°C. 0 26ml 30% H₂O₂ and 6ml 20% NaOH were added. The reaction was allowed to warm to room temperature and stirred for 18h. The mixture was diluted with CH₂Cl₂ and methanol, washed with water, washed with brine, dried over sodium sulfate, and evaporated in vacuo. The residue was chromatographed on silica gel using a CH₂Cl₂-ethanol gradient. Crystallization from methanol afforded the titled compound (22 5mg. 11%), MS (FD) 403

Elemental analysis for C ₂₃ H ₂₁ N ₃ O ₄ :			
Calculated	C 68 47.	H 5 25.	N 10 42
Theory	C 68 65:	H 4 99.	N 10 40

Example 64

Preparation of [9-Benzyl-4-carbamoyl-1.2.3.4-tetrahydrocarbaole-5-yl]oxyacetic acid

[0486]

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CO2H CONH2

35 A 9-Benzyl-4-carboxy-5-methoxy-1.2,3,4-tetrahydrocarbazole, Ethyl Ester.

[0487] A solution of 1 50 g (4 02 mmol) of 9-Benzyl-4-carboxy-3-chloro-5-methoxy-1.2.3.4-tetrahydrocarbazole ethyl ester and 0.45 g (4 40 mmol) of Et₃N in 25 mL of EtOH was treated with 0 24 g of 5% Pd-C and the mixture hydrogenated at 60 psi for 16 hrs. The reaction was filtered and concentrated in vacuo to give 1.40 g of a tan solid. H NMR (CDCl₃) δ 7 30-7 19 (m. 3H), 7 03-6 95 (m, 3H), 6.80 (d, 1H, J=8 1 Hz), 6.44 (d. 1H, J=7.7 Hz), 5.22 (d. 2H, J=5.9 Hz), 4.22-4.11 (m. 3H), 3 82 (s. 3H), 2 75-2 64 (m. 1H), 2 59-2 48 (m. 1H), 2 11-1 64 (m. 4H), and 1 25 (t. 3H, J=7.0 Hz). IR (CHCl₃) 2959. 1725, 1499, 1453, 1260, 1178, 1128 cm-1.

Elemental Analysis for C ₂₃ H ₂₅ NO ₃ :			
Calculated 363 183			
Found	363 1834		

B 9-Benzyl-4-carbamoyl-5-hydroxy-1.2.3 4-tetrahydrocarbazole

[0488] A 0 °C solution of 1 00 g (2 80 mmol) 9-benzyl-4-carboxy-5-methoxy-1,2,3.4-tetrahydrocarbazole, ethyl ester in 15 mL of CH₂Cl₂ was treated with 22 40 mL (22 40 mmol: 1M in CH₂Cl₂) of BBr₃. The cold bath was removed and the reaction stirred until tlc analysis (10% EtOAc in hexanes) indicated complete consumption of starting material (1.5 hrs). The reaction was cooled to 0 °C and was quenched with 5 0 mL of MeOH. The mixture was stirred at ambient temperature for 18 hrs and was concentrated *in vacuo*. The black oil was taken up in 200 mL of CH₂Cl₂ and the solution washed with H₂O (100 mL) and sat'd aq NaHCO₃ (100mL). Evaporation of the solvent *in vacuo* afforded 700 mg of a black oil. Purification by radial chromatography (10 % EtOAc in hexanes) afforded 400 mg of 9-benzyl-4-carboxy-5-hydroxy-1,2,3,4-tetrahydrocarbazole, ethyl ester which was taken on directly to the next reaction.

[0489] The phenol was taken up in 40 ml of THF and the solution treated with 10 mL of NH₄OH. The reaction vessel was capped and the mixture stirred vigorously for 13 days. The reaction was poured into H₂O and the mixture extracted with EtOAc (3 x 150 mL). The combined organic layers were dried (Na₂SO₄), filtered and concentrated in *vacuo* to give 300 mg of a brown foam. Radial chromatography (3% MeOH in CH₂Cl₂) afforded 50 mg of starting phenol and 80 mg (0.03 mmol; 22 %) of 9-benzyl-4-carbamoyl-5-hydroxy-1,2,3.4-tetrahydrocarbazole ¹H NMR (CDCl₃) δ 7 33-7 24 (m. 3H), 7 06-6 97 (m, 3H), 6.81 (d, 1H, J=8.1 Hz), 6.56 (d, 1H, J=7.5 Hz), 5.22 (d, 2H, J=2.2 Hz), 4.20-4 15 (m, 1H), 2.78-2.67 (m, 1H), 2.63-2.51 (m, 1H), 2.35-2.27 (m, 1H), and 2 09-1.91 (m, 3H), no phenol proton detected IR (CHCl3) 3007, 1667, 1586, 1567, 1496, 1266 cm-1:

Elemental Analysis for C ₂₀ H ₂₁ N ₂ O ₂		
Calculated	321.1603	
Found	321 1607	

C [9-Benzyl-4-carbamoyl-1,2.3,4-tetrahydrocarbaole-5-yl]oxyacetic acid. Methyl Ester.

[0490] A solution of 80 mg (0 25 mmol) of 9-benzyl-4-carbamoyl-5-hydroxy-1.2,3 4-tetrahydrocarbazole in 2 5 mL of DMF was treated with 61 mg (0 30 mmol) of Cs_2CO_3 followed by 26 mg (0 30 mmol) of methyl bromoacetate. The moture was stirred at room temperature until the indicated complete consumption of starting material (2 hrs). The reaction was diluted with H_2O (10 mL) and was extracted with EtOAc (3x10 mL). The combined organic layers were washed with H_2O (3 x2 0 mL), dried over Na_2SO_4 , filtered and concentrated in *vacuo*. The residue was purified by radial chromatography (SiO_2 : 2 5% MeOH in CH_2Cl_2) to afford 50 mg (0.13 mmol: 51%) of [9-benzyl-4-carbamoyl-1.2.3,4-tetrahydrocarbaole-5-yl]oxyacetic acid, methyl ester as an oil 1H NMR ($CDCl_3$) δ 7.33-7.21 (m, 3H), 7.05-6.98 (m, 3H), 6 98 (d, 1H, J=7.4 Hz), 6.46 (br s, 1H), 6.37 (d, 1H, J=7.7 Hz), 5.52 (br s, 1H), 5.23 (d, 1H, J=4.9 Hz) 4.79-4.70 (m, 2H), 4.20-4.15 (m, 1H), 3.81 (s, 3H), 2.79-2.69 (m, 1H), 2.63-2.49 (m, 1H), 2.43-2.35 (m, 1H), 2.25-2.09 (m, 1H), and 1.99-1.78 (m, 2H). IR ($CHCl_3$, Cm^{-1}) 1759, 1670–1497, 1453, 1440, and 1132. MS (ES) m/e 393 (M+1)

Elemental Analysis for C ₂₃ H ₂₄ N ₂ O ₄			
Calculated	C, 70.39:	H, 6 16.	N. 7.14
Found	C, 70.29:	H, 6 31.	N. 7 08

D [9-Benzyl-4-carbamoyl-1,2,3,4-tetrahydrocarbaole-5-yl]oxyacetic acid

[0491] A solution of 30 mg (0 076 mmol) of [9-benzyl-4-carbamoyl-1,2.3,4-tetrahydrocarbaole-5-yl]oxyacetic acid, methyl ester in 1 0 mL of THF and 1.0 mL of MeOH was treated with 0.2 mL of 1 N aq LiOH (0 2 mmol). The mixture was stirred for 18 hrs. An additional 0.2 mL of 1 N aq LiOH (0.2 mmol) was added and stirring continued. After 1 hr. the mixture was concentrated *in vacuo*. The residue was dissolved in 2.0 mL of H₂O and the solution acidified with 0.2 N aq HCI. The solid was filtered and dried to afford 25 mg of [9-benzyl-4-carbamoyl-1,2,3,4-tetrahydrocarbaole-5-yl] oxyacetic acid as a white solid. ¹H NMR (DMSO-d6) δ 7.36-7.12 (m, 5H), 7 05-6 83 (m, 5H), 6.71 (br s, 1H), 6.35 (d, 1H, J=7.6 Hz). 5 27 (s, 2H). 4.64 (s. 2H), 3.93-3.84 (m. 2H). 2.75-2.64 (m, 1H), 2.16-1.95 (m. 2H), 1.81-1 64 (m. 2H) and 1 proton masked by H₂O peak between 2 58-2.40. IR (KBr cm⁻¹) 3435, 2936. 1722, 1644, 1586. 1566, 1495, 1451, 1354, 1227, 1134, 730, 716. and 698. MS (ES) m/e 377 (M-1) and 379 (M+1)

Elemental A	nalysis for C	22H22N2O4	:
Calculated	C, 69 83:	H, 5 86,	N, 7 40
Found	C, 70.11;	H, 5.76;	N, 7 12

[0492] The compounds described herein are believed to achieve their beneficial therapeutic action principally by direct inhibition of human sPLA₂, and not by acting as antagonists for arachidonic acid, nor other active agents below arachidonic acid in the arachidonic acid cascade, such as 5-lipoxygenases, cyclooxygenases, etc.

[0493] The method of the invention for inhibiting sPLA₂ mediated release of latty acids comprises contacting sPLA₂ with an therapeutically effective amount of the compound of Formula (I) or its salt

[0494] The compounds of the invention may be used in a method of treating a mammal (e.g., a human) to alleviate the pathological effects of septic shock, adult respiratory distress syndrome, pancreatitus, trauma, bronchial asthma, allergic minitis, and meumatoid arthritis wherein the method comprises administering to the mammal a compound of formula (I) in a therap utically effective amount A "therap utically effective" amount is an amount sufficient to inhibit

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sPLA₂ mediated release of fatty acid and till thereby inhibit or privent the arachid inic acid cascade and its deleterious products. The therapeutic amount of compound of the invention needed to inhibit sPLA₂ may be readily determined by taking a sample of body fluid and assaying it for sPLA₂ content by conventional methods.

[0495] Throughout this document, the person or animal to be treated will be described as a "mammal", and it will be understood that the most preferred subject is a human. However it must be noted that the study of adverse conditions of the central nervous system in non-human animals is only now beginning, an that some instances of such treatments are coming into use. Accordingly, use of the present compounds in non-human animals is contemplated. It will be understood that the dosage ranges for other animals will necessarily be quite different from the doses administered to humans, and accordingly that the dosage ranges described be recalculated. For example, a small dog may be only 1/10th of a typical human's size, and it will therefore be necessary for a much smaller dose to be used. The determination of an effective amount for a certain non-human animal is carried out in the same manner described below in the case of humans, and veterinarians are well accustomed to such determinations.

[0496] As previously noted the compounds of this invention are useful for inhibiting sPLA₂ mediated release of fatty acids such as arachidonic acid. By the term "inhibiting" is meant the prevention or therapeutically significant reduction in release of sPLA₂ initiated fatty acids by the compounds of the invention. By "pharmaceutically acceptable" it is meant the carrier, diluent or excipient must be compatible with the other ingredients of the formulation and not deleterious to the recipient thereof

[0497] In general, the compounds of the invention are most desirably administered at a dose that will generally afford effective results without causing any serious side effects and can be administered either as a single unit dose, or if desired, the dosage may be divided into convenient subunits administered at suitable times throughout the day.

[0498] The specific dose of a compound administered according to this invention to obtain the rapeutic or prophylactic effects will, of course, be determined by the particular circumstances surrounding the case, including, for example, the route of administration, the age, weight and response of the individual patient, the condition being treated and the severity of the patient's symptoms. Typical daily doses will contain a non-toxic dosage level of from about 0.01 mg/kg to about 50 mg/kg of body weight of an active compound of this invention.

[0499] Preferably the pharmaceutical formulation is in unit dosage form. The unit dosage form can be a capsule or tablet itself or the appropriate number of any of these. The quantity of active ingredient in a unit dose of composition may be varied or adjusted from about 0.1 to about 1000 milligrams or more according to the particular treatment involved. It may be appreciated that it may be necessary to make routine variations to the dosage depending on the age and condition of the patient. The dosage will also depend on the route of administration.

[0500] A "chronic" condition means a deteriorating condition of slow progress and long continuance. As such, it is treated when it is diagnosed and continued throughout the course of the disease. An "acute" condition is an exacerbation of short course followed by a period of remission. In an acute event, compound is administered at the onset of symptoms and discontinued when the symptoms disappear.

[0501] Pancreatitis, trauma-induced shock, bronchial asthma, allergic rhinitis and rheumatoid arthritis may occur as an acute event or a chronic event. Thus, the treatment of these conditions contemplates both acute and chronic forms. Septic shock and adult respiratory distress on the other hand, are acute conditions treated when diagnosed.

[0502] The compound can be administered by a variety of routes including oral, aerosol rectal transdermal subcutaneous, intravenous, in

[0503] Pharmaceutical formulations of the invention are prepared by combining (e.g., mixing) a therapeutically effective amount of the compounds of the invention together with a pharmaceutically acceptable carrier or diluent therefor The present pharmaceutical formulations are prepared by known procedures using well known and readily available ingredients.

[0504] In making the compositions of the present invention, the active ingredient will usually be admixed with a carrier or diluted by a carrier, or enclosed within a carrier which may be in the form of a capsule, sachet, paper or other container. When the carrier serves as a diluent, it may be a solid semi-solid or liquid material which acts as a vehicle, or can be in the form of tablets, pills powders, lozenges, elixirs, suspensions, emulsions, solutions, syrups, aerosols (as a solid or in a liquid medium), or ointment, containing, for example, up to 10% by weight of the active compound. The compounds of the present invention are preferably formulated prior to administration.

[0505] For the pharmaceutical formulations any suitable carrier known in the art can be used. In such a formulation, the carrier may be a solid liquid, or mixture of a solid and a liquid. Solid form formulations include powders, tablets and capsules. A solid carrier can be one or more substances which may also act as flavoring agents. Iubricants, solublisers, suspending agents, binders, tablet disintegrating agents and encapsulating material.

[0506] Tablets for oral administration may contain suitable excipients such as calcium carbonate, sodium carbonate, lactose, calcium phosphate, together with disintegrating agents, such as maize, starch, or alginic acid, and/or binding agents, for example, gelating in acacia, and lubricating agents such as magnesium stearate, stearic acid, or talc.

[0507] In powders the carrier is a finely divided solid which is in admixture with the fingly divided active ingredient.

[0507] In powders the carrier is a finely divided solid which is in admixture with the fin-ty divided active ingredient.
In tablets the active ingredient is mixed with a carrier having the necessary binding properties in suitable proportions.

and compacted in the shape and siz desired. The powders and tablets preferably contain from about 1 to about 99 weight percent of the active ingredient which is the novel compound of this invention. Suitable solid carriers are magnesium carbonate, magnesium stearate, talc, sugar lactose, pectin, dextrin, starch, gelatin, tragacanth, methyl cellulose, sodium carboxymethyl cellulose, low melting waxes, and cocoa butter.

[0508] Sterile liquid form formulations include suspensions, emulsions, syrups and elixirs

[0509] The active ingredient can be dissolved or suspended in a pharmaceutically acceptable carrier, such as sterile water, sterile organic solvent or a mixture of both. The active ingredient can often be dissolved in a suitable organic solvent for instance aqueous propylene glycol. Other compositions can be made by dispersing the finely divided active ingredient in aqueous starch or sodium carboxymethyl cellulose solution or in a suitable oil.

[0510] The following pharmaceutical formulations 1 through 8 are illustrative only and are not intended to limit the scope of the invention in any way "Active ingredient", refers to a compound according to Formula (III) or a pharmaceutically acceptable salt, solvate, or prodrug thereof

Formulation 1

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[0511] Hard gelatin capsules are prepared using the following ingredients

	Quantity (mg/capsule)
Compound of Example 5	250
Starch, dried	200
Magnesium stearate	10
Total	460 mg

Formulation 2

[0512] A tablet is prepared using the ingredients below

	Quantity (mg/tablet)
Compound of Example 10	250
Cellulose. microcrystalline	400
Silicon dioxide, furned	10
Stearic acid	5
Total	665 mg

The components are blended and compressed to form tablets each weighing 665 mg

Formulation 3

[0513] An aerosol solution is prepared containing the following components

	Weight
Compound of Example 15	0 25
Ethanol	25 75
Propellant 22 (Chlorodifluoromethane)	74 00
Total	100.00

[0514] The active compound is mixed with ethanol and the mixture added to a portion of the propellant 22, cooled to -30°C and transferred to a filling device. The required amount is then fed to a stainless steel container and diluted with the remainder of the propellant. The valve units are thin fitted to the container.

Formulation 4

[0515] Tablets, each containing 60 mg of active ingredient, are made as follows

Compound of Example 25	60 mg
Starch	45 mg
Microcrystalline cellulose	35 mg
Polyvinylpyrrolidone (as 10% solution in water)	4 mg
Sodium carboxymethyl starch	4.5 mg
Magnesium stearate	0.5 mg
Talc	1 mg
Total	150 mg

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[0516] The active ingredient starch and cellulose are passed through a No. 45 mesh U.S. sieve and mixed thoroughly. The aqueous solution containing polyvinylpyrrolidone is mixed with the resultant powder, and the mixture then is passed through a No. 14 mesh U.S. sieve. The granules so produced are dried at 50°C and passed through a No. 18 mesh U.S. sieve. The sodium carboxymethyl starch imagnesium stearate and talc. previously passed through a No. 60 mesh U.S. sieve are then added to the granules which, after mixing, are compressed on a tablet machine to yield tablets each weighing 150 mg.

Formulation 5

25 [0517] Capsules, each containing 80 mg of active ingredient, are made as follows

Compound of Example 30	80 mg
Starch Microcrystalline cellulose Magnesium stearate Total	59 mg 59 mg 2 mg 200 mg

35 [0518] The active ingredient, cellulose, starch, and magnesium stearate are blended, passed through a No 45 mesh U.S. sieve, and filled into hard gelatin capsules in 200 mg quantities

Formulation 6

[0519] Suppositories each containing 225 mg of active ingredient, are made as follows

Compound of Example 35	225 mg
Saturated fatty acid glycerides	2,000 mg
Total	2,225 mg

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[0520] The active ingredient is passed through a No 60 mesh U S sieve and suspended in the saturated fatty acid glycerides previously melted using the minimum heat necessary. The mixture is then poured into a suppository mold of nominal 2 g capacity and allowed to cool

Formulation 7

[0521] Suspensions, each containing 50 mg of active ingredient per 5 ml dose, are made as follows

Compound of Examp	40 50 mg	

(continued)

Sodium carboxymethyl cellulose	50 mg
Syrup	1.25 ml
Benzoic acid solution	0 10 ml
Flavor	q v.
Color	q v.
Purified water to total	5 ml

[0522] The active ingredient is passed through a No. 45 mesh U.S. sieve and mixed with the sodium carboxymethyl cellulose and syrup to form a smooth paste. The benzoic acid solution, flavor and color are diluted with a portion of the water and added, with stirring. Sufficient water is then added to produce the required volume.

Formulation 8

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[0523] An intravenous formulation may be prepared as follows

Compound of Example 45 100 mg

Isotonic saline 1,000 ml

The solution of the above ingredients generally is administered intravenously to a subject at a rate of 1 ml per minute

25 Assay Example 1

[0524] The following chromogenic assay procedure was used to identify and evaluate inhibitors of recombinant human secreted phospholipase A₂. The assay described herein has been adapted for high volume screening using 96 well microtiter plates. A general description of this assay method is found in the article, "Analysis of Human Synovial Fluid Phospholipase A₂ on Short Chain Phosphatidylcholine-Mixed Micelles: Development of a Spectrophotometric Assay Suitable for a Microtiterplate Reader" by Laure J. Reynolds, Lori L. Hughes, and Edward A Dennis, <u>Analytical Biochemistry</u>, 204, pp. 190-197, 1992 (the disclosure of which is incorporated herein by reference)

Reagents

[0525]

REACTION BUFFER -

40 CaCl₂.2H₂O (1.47 g/L)

KCI (7 455 g/L)

Bovine Serum Albumin (fatty acid free) (1 g/L) (Sigma A-7030, product of Sigma Chemical Co. St. Louis MO.

USA)

TRIS HCI (3 94 g/L)

pH 7.5 (adjust with NaOH)

ENZYME BUFFER -

0 05 NaOAc ₃H₂O, pH 4.5

0.2 NaCl

Adjust pH to 4 5 with acetic acid

DTNB -

5,5'-dithiobis-2-nitrobenzoic acid

PACEMIC DIHEPTANOYL THIO - PC

racemic 1 2-bis(heptanoylthio)-1.2-dideoxy-sn-glycer -3-phosphorylcholine TRITON X-100™ prepare at 6 249 mg/ml in reaction buffer to equal 10uM TRITON X-100™ is a polyoxy ethylene non-ionic detergent supplied by Pierce Chemical Company, 3747 N Meridian Road Rockford, Illinois 61101

REACTION MIXTURE -

A measured volume of racemic dipheptanoyl thio PC supplied in chloroform at a concentration of 100 mg/ml is taken to dryness and redissolved in 10 millimolar TRITON X-100™ nonionic detergent aqueous solution. Reaction Buffer is added to the solution, then DTNB to give the Reaction Mixture

The reaction mixture thus obtained contains 1mM diheptanoly thio-PC substrate, 0.29 mm Triton X-100^{ml} detergent, and 0.12 mm DTMB in a buffered aqueous solution at pH 7.5

Assay Procedure

⁵ [0526]

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- 1 Add 0.2 ml reaction mixture to all wells.
- 2 Add 10 ul test compound (or solvent blank) to appropriate wells. mix 20 seconds.
- 3 Add 50 nanograms of sPLA₂ (10 microliters) to appropriate wells.
- 4. Incubate plate at 40°C for 30 minutes
- 5 Read absorbance of wells at 405 nanometers with an automatic plate reader

[0527] All compounds were tested in triplicate Typically, compounds were tested at a final concentration of 5 ug/ml. Compounds were considered active when they exhibited 40% inhibition or greater compared to uninhibited control reactions when measured at 405 nanometers. Lack of color development at 405 nanometers evidenced inhibition. Compounds initially found to be active were reassayed to confirm their activity and if sufficiently active, IC₅₀ values were determined. Typically, the IC₅₀ values (see, Table I, below) were determined by diluting test compound serially two-fold such that the final concentration in the reaction ranged from 45 ug/ml. to 0.35 ug/ml. More potent inhibitors required significantly greater dilution. In all cases, % inhibition measured at 405 nanometers generated by enzyme reactions containing inhibitors relative to the uninhibited control reactions was determined. Each sample was litrated in triplicate and result values were averaged for plotting and calculation of IC₅₀ values. IC₅₀ were determined by plotting log concentration versus inhibition values in the range from 10-90% inhibition.

[0528] Compounds of the instant invention were tested in Assay Example 1 and were found to be effective at concentrations of less than 100µM.

Assay Example 2

Method:

[0529] Male Hartley strain guinea pigs (500-700g) were killed by cervical dislocation and their heart and lungs removed intact and placed in aerated (95% O₂ 5% CO₂) Krebs buffer Dorsal pleural strips (4x1x25mm) were dissected from intact parenchymal segments (8x4x25mm) cut parallel to the outer edge of the lower lung lobes. Two adjacent pleural strips obtained from a single lobe and representing a single tissue sample, were tied at either end and independently attached to a metal support rod. One rod was attached to a Grass force-displacement transducer Model FTO3C, product of Grass Medical Instruments Co., Quincy, MA. USA). Changes in isometric tension were displayed on a monitor and thermal recorder (product of Modular Instruments Malvem, PA). All tissues were placed in 10 ml jacketed tissue baths maintained at 37°C. The tissue baths were continuously aerated and contained a modified Krebs solution of the following composition (millimolar) NaCl, 118.2; KCl, 4.6; CaCl₂·2H₂O. 2.5; MgSO₄·7H₂O. 1.2; NaHCO₃·24.8; KH₂PO₄, 1.0; and dextrose, 10.0. Pleural strips from the opposite lobes of the lung were used for paired experiments. Preliminary data generated from tension/response curves demonstrated that resting tension of 800mg was optimal. The tissues were allowed to equilibrate for 45 min, as the bath fluid was changed periodically.

Cumulative concentration-response curves:

[0530] Initially tissues were challenged 3 times with KCI (40 mM) to test tissue viability and to obtain a consistent response. After recording the maximal response to KCI, the tissues were washed and allowed to return to bas line before the next challenge. Cumulative concentration-response curves wire obtained from pleural strips by increasing the agonist concentration (sPLA₂) in the tissue bath by half-log₁₀ increments while the previous concentration remained.

in contact with the lissues (Ref. 1, supra.) Agonist concentration was increased after reaching the plateau of the contraction elicited by the preceding concentration. One concentration-response curve was obtained from each tissue. To minimize variability between tissues obtained from different animals, contractile responses were expressed as a percentage of the maximal response obtained with the final KCL challenge. When studying the effects of various drugs on the contractile effects of sPLA₂, the compounds and their respective vehicles were added to the tissues 30 minutes prior to starting the sPLA₂ concentration-response curves.

Statistical analysis

[0531] Data from different experiments were pooled and presented as a percentage of the maximal KCL responses (mean ± S E). To estimate the drug induced rightward shifts in the concentration response curves, the curves were analyzed simultaneously using statistical nonlinear modeling methods similar to those described by Waud (1976). Equation 26 p. 163. (Ref. 2). The model includes four parameters, the maximum tissue response which was assumed the same for each curve, the ED₅₀ for the control curve, the steepness of the curves, and the pA₂, the concentration of antagonist that requires a two-fold increase in agonist to achieve an equivalent response. The Schild slope was determined to be 1 using statistical nonlinear modeling methods similar to those described by Waud (1976), Equation 27, p. 164 (Ref. 2). The Schild slope equal to 1 indicates the model is consistent with the assumptions of a competitive antagonist, therefore, the pA2 may be interpreted as the apparent K_B, the dissociation constant of the inhibitor [0532]. To estimate the drug-induced suppression of the maximal responses, sPLA₂ responses (10 ug/ml) were determined in the absence and presence of drug, and percent suppression was calculated for each pair of tissues. Representative examples of inhibitory activities are presented in Table 2, below.

Ref 1 - Van J M. Cumulative dose-response curves II Technique for the making of dose-response curves in isolated organs and the evaluation of drug parameters. <u>Arch Int Pharmacodyn. Ther.</u> 143 299-330, 1963.

Ref 2 - Waud, D Analysis of dose-response relationships in <u>Advances in General and Cellular Pharmacology</u> eds Narahashi, Bianchi 1:145-178, 1976

[0533] Compounds of the instant invention were tested in Assay Example 2 and were found to be effective at concentrations below $20\mu M$

Assay Example 3

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sPLA₂ Transgenic Mice Assay

35 Materials & Methods

[0534] The mice utilized in these studies were mature, 6-8 month old. ZnSO₄-stimulated, hemizygous line 2608a transgenic mice (Fox et al. 1996). Transgenic mice from this line express human sPLA₂ in the liver and other tissues and typically achieve levels of human sPLA₂ in their circulation of approximately 173 ± 10 ng/ml when maximally stimulated with ZnSO₄ (Fox. et al. 1996). The mice were housed under constant humidity and temperature and received food and water ad libitum. Animal room lighting was maintained on a 12-hour light/dark cycle and all experiments were performed at the same time of the day during the early morning light period.

[0535] For intravenous testing, compounds or vehicle were administered as an IV bolus via the tail vein in a volume of 0.15 ml. Vehicle consisted of 1.5% dimethylsulfoxide 1.5% ethanol and 10.30% polyethylene glycol 300 m H₂O, the concentrations of these ingredients were adjusted according to the solubility of the compound. Mice were bled retro-orbitally prior to drug or vehicle administration and 30 minutes, 2 and 4 hours thereafter. Three to six mice were used for each dose. PLA₂ catalytic activity in the serum was assayed with a modified phosphatidylcholine/deoxycholine mixed micelle assay (Fox, et al. 1996, Schadlich, et al., 1987) utilizing 3 mM sodium deoxycholate and 1 mM 1-palmitoyl-2-oleoyl-sn-glycero-3-phosphocholine.

[0536] For oral testing, compounds were dissolved in 1-5% ethanol/10-30% polyethylene glycol 300 in H₂O or were suspended in 5% dextrose in H₂O and administered by oral gavage. Serum was prepared from retro-orbital blood and assayed for PLA₂ catalytic activity as above.

References

[0537] F x. N , M. Song J. Schr menti, J. D Sharp, D. L. White, D. W Snyder, L W. Hartl y. D. G Carlson, N J Bach, R. D Dillard, S E. Draheim, J. L Bobbitt L. Fisher and E D Mih lich. 1996 Eur. J. Pharmacol 308 195

Schadlich. H.R., M. Buchler, and H. G. Beger, 1987, J. Clin. Chem. Clin. Biochem. 25, 505

[0538] Compounds of the instant invention were tested in Assay Example 3 and were found to be effective
[0539] While the present invention has been illustrated above by certain specific embodiments, it is not intended that
these specific examples should limit the scope of the invention as described in the appended claims

Claims

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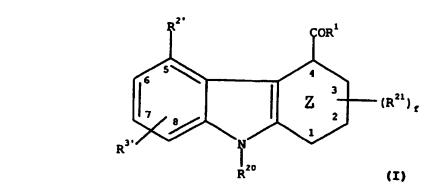
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1. A compound of the formula (I)



wherein

Z is cyclohexenyl or phenyl.

R²⁰ is selected from groups (a). (b) and (c) where

- (a) is -(C5-C20)alkyl, -(C5-C20)alkenyl, (C5-C20)alkynyl, carbocyclic radicals, or heterocyclic radicals, or
- (b) is a member of (a) substituted with one or more independently selected non-interfering substituents or
- (c) is the group (L)-R80, where, (L)-is a divalent linking group of 1 to 12 atoms selected from carbon, hydrogen oxygen, nitrogen, and sulfur, wherein the combination of atoms in -(L)- are selected from the group consisting of (i) carbon and hydrogen only, (ii) one sulfur only, (iii) one oxygen only, (iv) one or two nitrogen and hydrogen only, (v) carbon, hydrogen, and one sulfur only, and (vi) an carbon, hydrogen, and oxygen only, and where R80 is a group selected from (a) or (b)

R21 is a non-interfering substituent where f is 1-3;

R1 is -NHNH2.-NH2. or -CONH2.

H2 is selected from the group consisting of -OH and -O(CH2),R5 where

 R^{5} is H. -CN. -NH₂. -CONH₂. -CONH₃P10 -NHSO₂P15. -CONHSO₂P15 where R15 is -(C₁-C₆)alkyl or -CF₃-phenyl or phenyl substituted with -CO₂H or -CO₂(C₁-C₄)alkyl: and -(L_a)-(acidic group) wherein -(L_a)- is an acid linker having an acid linker length of 1 to 7 and t is 1-5.

R3' is selected from non-interfering substituent, carbocyclic radicals, carbocyclic radicals substituted with non-interfering substituents, heterocyclic radicals, and heterocyclic radicals substituted with non-interfering substituents.

or a pharmaceutically acceptable racemate, solvate, tautomer, optical isomer, prodrug derivative or salt, thereof

2. A compound of the formula (II)

$$\begin{array}{c|c}
R^2 & COR^1 \\
\hline
7 & 6 & Z & 2 \\
\hline
CH_2R^4 & (II)
\end{array}$$

wherein:

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Z is cyclohexenyl. or phenyl;

R21 is a non-interfering substituent.

R1 is -NHNH2 or -NH2:

H2 is selected from the group consisting of -OH and -O(CH₂)_mH5 where

R5 is H, -CO₂H, -CONH₂, -CO₂(C₁-C₄ alkyl).

where R^6 and R^7 are each independently -OH or -O(C_1 - C_4)alkyl.-SO₃H, -SO₃(C1-C4 alkyl), tetrazolyl, -CN, -NH₂,-NHSO₂R¹⁵ -CONHSO₂R¹⁵, where R^{15} is -(C_1 - C_6)alkyl or-CF₃, phenyl or phenyl substituted with -CO₂H or -CO₂(C_1 - C_4)alkyl where m is 1-3

 R^3 is H, -O(C₁-C₄)alkyl, halo, -(C₁-C₆)alkyl, phenyl, -(C₁-C₄)alkylphenyl: phenyl substituted with -(C₁-C₆)alkyl, halo, or -CF₃, -CH₂OSi(C₁-C₆)alkyl, furyl. thophenyl, -(C₁-C₆)hydroxyalkyl. or -(CH₂)_nR⁸ where R⁸ is H, -CONH₂. -NR⁹R¹⁰, -CN or phenyl where R⁹ and R¹⁰ are independently -(C₁-C₄)alkyl or -phenyl(C₁-C₄)alkyl and n is 1 to 8.

 R^4 is H. -(C_5 - C_{14}) alkyl.-(C_3 - C_{14})cycloalkyl. pyridyl, phenyl or phenyl substituted with -(C_1 - C_6)alkyl. halo. -CF₃,-OCF₃,-(C_1 - C_4)alkoxy, -CN, -(C_1 - C_4)alkylthio, phenyl(C1- C_4) alkyl, -(C_1 - C_4) alkylphenyl, phenoxy or naphthyl.

- or a pharmaceutically acceptable racemate, solvate tautomer optical isomer, prodrug derivative or salt, thereof.
 - 3. A compound of formula (II) as claimed in Claim 2 wherein

R¹ is-NH₂; and Z is phenyl.

Z is phenyl.

- A compound as claimed in any one of Claims 2 or 3. wherein R⁵ is H, NH₂, -CONH₂, -SO₃H, -SO₃(C₁-C₄) alkyl, tetrazolyl, -CN. -NH₂, -NHSO₂R¹⁵; -CONHSO₂R¹⁵, where R¹⁵ is (C₁-C₆) alkyl, -CF₃, phenyl or phenyl substituted with -CO₂H or -CO₂(C₁-C₄)alkyl.
- A compound of formula (II) as claimed in any one of Claims 2-4 wherein R³ is halo, -(C₁-C₆) alkyl, phenyl.-(C₁-C₄)alkylphenyl phenyl substituted with -(C₁-C₄)alkyl, halo, or -CF₃, -CH₂OSI(C₁-C₆)alkyl, furyl, thiophenyl or (C₁-C₆)hydroxy alkyl.
- 6. A compound of formula (II) as claimed in any one of Claims 2-5 wherein R4 is pyridyl, phenyl substituted with (C₅-C₆) alkyl -CF₃, -CCF₃, -CN. -(C₁-C₄)alkylphenyl, phenoxy or naphthyl
 - 7. A compound of formula (II) as claimed in any ne 1 Claims 2-6 wherein R21 is selected from the group consisting

of hydrogen halo.- (C_1-C_3) alkyl.- (C_3-C_4) alkyl.- (C_3-C_4) cycloalkyl.- (C_3-C_4) cycloalkenyl - $O(C_1-C_2)$ alkyl and - $S(C_1-C_2)$ alkyl

- 8. A compound of formula (II) as claimed in any one of Claims 2-7 wherein R4 is hydrogen
- A compound of formula (II) as claimed in any one of Claims 2-8 wherein R¹ is -NH₂ and R² is-O(CH₂)_mR⁵ where R⁵ is -H, -CO₂H or

-P (R6R7),

where R6 and R7 are -OH

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- 10. A compound of formula (II) as claimed in any one of Claims 2-8 where R² is -O(CH₂)_mR⁵ where R⁵ is -H.-CO₂ (C₁-C₄ alkyl), phenyl or phenyl substituted with -CO₂H or -CO₂(C₁-C₄ alkyl).
- 11. A compound of formula (II) as claimed in any one of Claims 2-8 wherein R² is -O(CH₂)_mR⁵ where R⁵ is

O || -P (R6R7)

and R⁶ and R⁷ are -O(C₁-C₄ alkyl), or when one of R⁶ and R⁷ is -O(C₁-C₄ alkyl), the other is -OH

- 12. A compound of formula (II) as claimed in any one of Claims 2-11 where R³ is -H. -O(C₁-C₄ alkyl) or -(CH₂)_nR² where n = 2 and R³ is H or phenyl
- 13. A compound of formula (II) as claimed in any one of Claims 2-11 where R3 is H. or -O(C₁-C₄ alkyl)
- 14. A compound of formula (II) as claimed in any one of Claims 2-11 where R3 is -(CH₂)_nR3 where R8 is-NR9R10.

O -C_{NH2}

or -CN where R9 and R10 are -(C1-C4)alkyl.

- 15. A compound of formula (II) as claimed in any one of Claims 2-14 where R4 is phenyl.
- 16. A compound of formula (II) as claimed in any one of Claims 2-14 where R⁴ is phenyl substituted at the 2-and 6-position of the phenyl ring with -(C₁-C₄)alkyl, (C₁-C₄)alkoxy, halo or phenyl
 - 17. A compound of formula (II) as claimed in any one of Claims 2-14 where R4 is phenyl substituted at the 3-or 5-position of the phenyl ring with -(C₁-C₄)alkyl. -(C₁-C₄)alkoxy, halo or phenyl
- 50 18. A compound of formula (II) as claimed in any one of Claims 2-14 where R4 is -(C₆-C₁₄)alkyl or -(C₆-C₁₄)cycloalkyl
 - A compound of formula (II) as claimed in any one of Claims 2-18 where R⁵ is H, -CO₂H -CO₂(C₁-C₄ alkyl).

O -P (R⁶R⁷)

-NHSO₂(C₁-C₆)alkyl. -CONHSO₂ (C₁-C₆)alkyl. tetrazolyl, phenyl, or phenyl substituted with -CO₂H or -CO₂(C₁-C₄ alkyl) where R^6 and R^7 are each independently -OH or -O(C₁-C₄ alkyl) and m is 1-3

20. A compound of formula (II) as claimed in any one of Claims 2-19 where R5 is H -CO₂H. -CO₂(C₁-C₄ alkyl).

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phenyl, or phenyl substituted with- CO_2H or $-CO_2(C_1-C_4 \text{ alkyl})$ where H^6 and H^7 are each independently -OH or -O(H^6 -CO4 alkyl) and m is 1-3

21. A compound of formula (II) as claimed in any one of Claims 2-18 where R5 is H, -CO₂H, -CO₂(C₁-C₄ alkyl).

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where H^6 and H^7 are each independently -OH or -O(C₁-C₄)alkyl; -SO₃H, -SO₃(C₁-C₄ alkyl), tetrazolyl. -CN. -NH₂. -NHSO₂H¹⁵. -CONHSO₂H¹⁵, where H^{15} is -(C₁-C₆)alkyl or -CF₃, phenyl or phenyl substituted with -CO₂H or -CO₂(C₁-C₄)alkyl where m is 1-3

- 25 22. A compound of formula (II) as claimed in any one of Claims 2-21 where Z is cyclohexenyl
 - 23. A compound of formula (II) as claimed in any one of Claims 2-21 where Z is phenyl.
 - 24. A compound as claimed in any one of Claims 2-23 which is selected from the group consisting of

9-benzyl-5.7-dimethoxy-1,2.3.4-tetrahydrocarbazole-4-carboxylic acid hydrazide.

9-benzyl-5,7-dimethoxy-1,2,3,4-tetrahydrocarbazole-4-carboxamide:

[9-benzyl-4-carbamoyl-7-methoxy-1.2,3,4-tetrahydrocarbazol-5-yl|oxyacetic acid sodium salt

[9-benzyl-4-carbamoyl-7-methoxycarbazol-5-yl]oxyacetic acid.

methyl [9-benzyl-4-carbamoyl-7-methoxycarbazol-5-yl]oxyacetic acid;

9-benzyl-7-methoxy-5-cyanomethyloxy-1,2,3.4-tetrahydrocarbazole-4-carboxamide,

9-benzyl-7-methoxy-5-(1H-tetrazol-5-yl-methylloxy)-1,2,3,4-tetrahydrocarbazole-4-carboxamide.

[9-[(phenyl)methyl]-5-carbamoyl-2-methyl-carbazol-4-yl]oxyacetic acid

{9-[(3-fluorophenyl)methyl]-5-carbamoyl-2-methyl-carbazol-4-yl}oxyacetic acid.

{9-{(3-methylphenyl)methyl]-5-carbamoyl-2-methyl-carbazol-4-yl|oxyacetic acid.

{9-{(phenyl)methyl]-5-carbamoyl-2-{4-trifluoromethylphenyl}-carbazol-4-yl]oxyacetic acid:

9-benzyl-5-(2-methanesulfonamido)ethyloxy-7-methoxy-1,2.3,4-tetrahydrocarbazole-4-carboxamide:

9-benzyl-4-(2-methanesulfonamido)ethyloxy-2-methoxycarbazole-5-carboxamide:

9-benzyl-4-(2-trifluoromethanesulfonamido)ethyloxy-2-methoxycarbazole-5-carboxamide:

9-benzyl-5-methanesulfonamidoylmethyloxy-7-methoxy-1.2.3,4-tetrahydrocarbazole-4-carboxamide;

9-benzyl-4-methanesulfonamidoylmethyloxy-carbazole-5-carboxamide.

[5-carbamoyl-2-pentyl-9-(phenylmethyl)carbazol-4-yl]oxyacetic acid.

[5-carbamoyl-2-(1-methylethyl)-9-(phenylmethyl)carbazol-4-yljoxyacetic acid.

[5-carbamoyl-9-(phenylmethyl)-2-[(tri(-1-methylethyl)silyl)oxymethyl]carbazol-4-yl]oxyacetic acid:

[5-carbamoyl-2-phenyl-9-(phenylmethyl)carbazol-4-yl]oxyacetic acid[5-carbamoyl-2-(4-chlorophenyl)-9-(phenylmethyl)carbazol-4-yl]oxyacetic acid.

[5-carbamoyl-2-(2-furyl)-9-(phenylmethyl)carbazol-4-yljoxyacetic acid.

[5-carbamoyl-9-(phenylmethyl)-2-[(tri(-1-methylethyl)silyl)oxymethyl]carbazol-4-yl]oxyacetic acid, lithium salt,

{9-{(2-Fluorophenyl)methyl}-5-carbamoylcarbazol-4-yl]oxyacetic acid;

[9-[(2-trifluoromethylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid:

{9-{(2-benzylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid;

[9-[(1-naphthyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid.

[9-[(2-cyanophenyl)methyl]-5-carbamoylcarbaz I-4-yl]oxyacetic acid;

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(9-[(3-cyanoph nyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid
               {9-[(3,5-dimethylphenyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid-
               {9-[(3-iodophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid:
               [9-[(2-Chlorophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid
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               [9-[(2,3-difluorophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid
               [9-[(2.6-difluorophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid
               {9-[(2.6-dichlorophenyl)methyl]-5-carbamoylcarbazol-4-yl)oxyacetic acid
               {9-[(2-biphenyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid
               {9-[(2-Biphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid:
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               {9-I(2-Biphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid
               [9-Benzyl-4-carbamoyl-1 2.3.4-tetrahydrocarbaole-5-yl]oxyacetic acid
               [9-[(2-Pyridyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid:
               {9-[(3-Pyridyl)methyl]-5-carbamoylcarbazol-4-vl}oxyacetic acid-
              [9-benzyl-4-carbamoyl-8-methyl-1.2.3,4-tetrahydrocarbazol-5-yl]oxyacetic acid
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              [9-benzyl-5-carbamoyl-i-methylcarbazol-4-yl]oxyacetic acid.
              [9-benzyl-4-carbamoyl-8-fluoro-1,2 3,4-tetrahydrocarbazol-5-yl]oxyacetic acid
              [9-benzyl-4-carbamoyl-8-chloro-1 2 3,4-tetrahydrocarbazol-5-yl]oxyacetic acid
              5-carbamoyl-9-(phenylmethyl)-2-[[(propen-3-yl)oxy]methyl]carbazol-4-yl]oxyacetic acid
              [5-carbamoyl-9-(phenylmethyl)-2-[(propyloxy)methyl]carbazol-4-yl]oxyacetic acid.
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              9-benzyl-7-methoxy-5-((carboxamidomethyl)oxy)-1 2.3,4-tetrahydrocarbazole-4-carboxamide
              9-benzyl-7-methoxy-5-cyanomethyloxy-carbazole-4-carboxamide
              9-benzyl-7-methoxy-5-((1H-tetrazol-5-yl-methyl)oxy)-carbazole-4-carboxamide
              9-benzyl-7-methoxy-5-((carboxamidomethyl)oxy)-carbazole-4-carboxamide and
              [9-Benzyl-4-carbamoyl-1 2,3 4-tetrahydrocarbaole-5-yl]oxyacetic acid
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or a pharmaceutically acceptable racemate, solvate, tautomer optical isomer prodrug derivative or salt thereof

25. A compound of any one of Claims 2-23 which is selected from the group consisting of

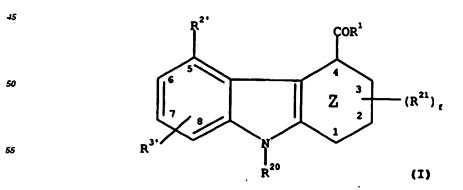
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               {9-[(phenyl)methyl]-5-carbamoyl-2-methyl-carbazol-4-yl]oxyacetic acid:
               {9-[(3-fluorophenyl)methyl]-5-carbamoyl-2-methyl-carbazol-4-yl}oxyacetic acid.
               [9-[(3-methylphenyljmethyl]-5-carbamoyl-2-methyl-carbazol-4-yl]oxyacetic acid
               [9-[(phenyl)methyl]-5-carbamoyl-2-(4-trifluoromethylphenyl)-carbazol-4-yl]oxyacelic acid
               9-benzyl-5-(2-methanesulfonamido)ethyloxy-7-methoxy-1,2.3.4-tetrahydrocarbazole-4-carboxamide.
               9-benzyl-4-(2-methanesulfonamido)ethyloxy-2-methoxycarbazole-5-carboxamide.
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               9-benzyl-4-(2-trifluoromethanesulfonamido)ethyloxy-2-methoxycarbazole-5-carboxamide
               9-benzyl-5-methanesulfonamidoylmethyloxy-7-methoxy-1.2.3,4-tetrahydrocarbazole-4-carboxamide
               9-benzyl-4-methanesulfonamidoylmethyloxy-carbazole-5-carboxamide
               [5-carbamoyl-2-pentyl-9-(phenylmethyl)carbazol-4-yl]oxyacetic acid
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               [5-carbamoyi-2-(1-methylethyl)-9-(phenylmethyl)carbazoi-4-yl]oxyacetic acid.
               [5-carbamoyl-9-(phenylmethyl)-2-[(lri(-1-methylethyl)silyl)oxymethyl]carbazol-4-yl]oxyacetic acid
               [5-carbamoyl-2-phenyl-9-(phenylmethyl)carbazol-4-yl]oxyacetic
                                                                                  acid[5-carbamoyl-2-(4-chlorophenyl)-9-
               (phenylmethyl)carbazol-4-yl]oxyacetic acid
               [5-carbamoyl-2-(2-furyl)-9-(phenylmethyl)carbazol-4-yf]oxyacetic acid.
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              [5-carbamoyl-9-(phenylmethyl)-2-[(trɪ(-1-methylethyl)sılyl)oxymethyl]carbazol-4-yl|oxyacetic acid, lithium salt
               [9-[ Phenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid.
               [9-[(3-fluorophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid:
              [9-[(3-phenoxyphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid:
              [9-[(2-Fluorophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid
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              {9-[(2-trifluoromethylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid;
              [9-[(2-benzylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid;
              [9-[(3-trifluoromethylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid.
              [9-[(1-naphthyi)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid.
              [9-[(2-cyanophenyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid
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              [9-[(3-cyanophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid.
              [9-[(2-methylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid
              [9-[(3-methylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid,
```

[9-[(3 5-dimethylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid.

[9-[(3-iodophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyac tic acid. [9-[(2-Chlorophenyl)methyl]-5-carbamoylcarbazol-4-vlloxvacetic acid. [9-[(2,3-difluorophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid: {9-{(2,6-difluorophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid: [9-[(2,6-dichlorophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid. 5 [9-[(3-trifluoromethoxyphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid. {9-[(2-biphenyl)methyl]-5-carbamoylcarbazol-4-vl}oxyacetic acid. {9-{(2-Biphenyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid; the {9-[(2-Biphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid: 10 [9-Benzyl-4-carbamoyl-1 2,3,4-tetrahydrocarbaole-5-yl]oxyacetic acid. [9-[(2-Pyridyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid; [9-[(3-Pyridyl)methyl]-5-carbamoylcarbazol-4-vlloxyacetic acid: [9-benzyl-4-carbamoyl-8-methyl-1.2,3.4-tetrahydrocarbazol-5-yl]oxyacetic acid. [9-benzyl-5-carbamoyl-1-methylcarbazol-4-yl]oxyacetic acid. 15 [9-benzyl-4-carbamoyl-8-fluoro-1,2,3.4-tetrahydrocarbazol-5-yl]oxyacetic acid: [9-benzyl-5-carbamoyl-1-fluorocarbazol-4-yl]oxyacetic acid. [9-benzyl-4-carbamoyl-8-chloro-1.2,3,4-tetrahydrocarbazol-5-yl]oxyacetic acid: [9-benzyl-5-carbamoyl-l-chlorocarbazol-4-yl]oxyacetic acid: [9-{(Cyclohexyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid. 20 [9-[Cyclopentyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid 5-carbamoyl-9-(phenylmethyl)-2-[[(propen-3-yl)oxy]methyl]carbazol-4-yl]oxyacetic acid. [5-carbamoyl-9-(phenylmethyl)-2-[(propyloxy)methyl]carbazol-4-ylloxyacetic acid: 9-benzyl-7-methoxy-5-((carboxamidomethyl)oxy)-1,2,3,4-tetrahydrocarbazole-4-carboxamide: 9-benzyl-7-methoxy-5-cyanomethyloxy-carbazole-4-carboxamide: 9-benzyl-7-methoxy-5-((1H-tetrazol-5-yl-methyl)oxy)-carbazole-4-carboxamide: 25 9-benzyl-7-methoxy-5-((carboxamidomethyl)oxy)-carbazole-4-carboxamide, and [9-Benzyl-4-carbamoyl-1,2,3,4-tetrahydrocarbaole-5-yi]oxyacetic acid

or a pharmaceutically acceptable racemate, solvate, tautomer, optical isomer prodrug derivative or salt, thereof

- 26. A compound as claimed in any one of Claims 1-23 wherein the prodrug derivative is a methyl, ethyl, propyl. isopropyl. butyl, morpholinoethyl or diethylglycolamide ester.
- 27. A pharmaceutical formulation comprising a compound of formula I as claimed in any one of Claims 1-23 together with a pharmaceutically acceptable carrier or diluent therefor
 - 28. A pharmaceutical formulation adapted for the treatment of a condition associated with inhibiting sPLA₂, containing a compound of formula I as claimed in any one of Claims 1-23 together with a pharmaceutically acceptable carrier or diluent therefor
 - 29. A method of selectively inhibiting sPLA₂ in a mammal in need of such treatment comprising administering to said mammal a therapeutically effective amount of a compound of formula (I)



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wherein.

Z is cyclohexenyl. or phenyl.

R20 is selected from groups (a). (b) and (c) where.

(a) is-(C5-C20)alkyl.-(C5-C20)alkenyl.-(C5-C20)alkynyl, carbocyclic radicals, or heterocyclic radicals, or

(b) is a member of (a) substituted with one or more independently selected non-interfering substituents: or

(c) is the group -(L)-R⁸⁰ where (L)-is a divalent linking group of 1 to 12 atoms selected from carbon, hydrogen, oxygen, nitrogen, and sullur, wherein the combination of atoms in -(L)- are selected from the group consisting of (i) carbon and hydrogen only. (ii) one sulfur only. (iii) one oxygen only. (iv) one or two nitrogen and hydrogen only. (v) carbon, hydrogen, and one sulfur only, and (vi) an carbon, hydrogen and oxygen only, and where R⁸⁰ is a group selected from (a) or (b).

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H21 is a non-interfering substituent where f is 1-3.

R1 is -NHNH2 -NH2. or -CONH2.

H2 is selected from the group consisting of -OH, and -O(CH2), H5 where

 R^{5} is H, -CN, -NH₂, -CONH₂, -CONH $^{9}R^{10}$ -NHSO₂R¹⁵;-CONHSO₂R¹⁵, where R^{15} is -(C₁-C₆)alkyl or -CF₃, phenyl or phenyl substituted with -CO₂H or -CO₂(C₁-C₄)alkyl, and -(L_a)-(acidic group), wherein -(L_a)- is an acid linker having an acid linker length of 1 to 7 and t is 1-5

R3 is selected from non-interfering substituent, carbocyclic radicals, carbocyclic radicals substituted with non-interfering substitutents, heterocyclic radicals, and heterocyclic radicals substituted with non-interfering substituents:

or a pharmaceutically acceptable racemate, solvate, tautomer, optical isomer, prodrug derivative or salt, thereof.

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30. A method of selectively inhibiting sPLA₂ in a mammal in need of such treatment comprising administering to said mammal a therapeutically effective amount of a compound of formula (II)

 $\begin{array}{c|c}
R^2 & C \\
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(II)

wherein

R1 is -NHNH2, or -NH2:

 R^2 is selected from the group consisting of -OH and -O(CH₂)_mR⁵ where R⁵ is H, -CO₂H, -CONH₂. -CO₂(C₁-C₄ alkyl)

55 ~P(R⁶R⁷)

where R6 and R7 are each independently -OH or -O(C1-C4)alkyl;-SO3H, -SO3(C1-C4 alkyl), tetrazolyl, -CN,

-NH₂,-NHSO₂R¹⁵, -CONHSO₂R¹⁵, whire R¹⁵ is -(C₁-C₆)alkyl or-CF₃, phenyl in phenyl substituted with -CO₂H or-CO₂(C₁-C₄)alkyl where m is 1-3,

 R^3 is H. $O(C_1 \cdot C_4)$ alkyl, halo, $\cdot(C_1 \cdot C_6)$ alkyl, phenyl, $\cdot(C_1 \cdot C_4)$ alkylphenyl; phenyl substituted with $\cdot(C_1 \cdot C_6)$ alkyl, halo or $\cdot CF_3$. $\cdot CH_2OSi(C_1 \cdot C_6)$ alkyl, turyl thiophenyl. $\cdot(C_1 \cdot C_6)$ hydroxyalkyl or $\cdot(CH_2)_n R^8$ where R^8 is H. $\cdot CONH_2$. $\cdot NR^9R^{10}$, $\cdot CN$ or phenyl where R^9 and R^{10} are independently $\cdot(C_1 \cdot C_4)$ alkyl or $\cdot Phenyl(C_1 \cdot C_4)$ alkyl and n is 1 to 8.

 F^4 is H, - (C_5 - C_{14}) alkyl, -(C_3 - C_{14})cycloalkyl, pyridyl, phenyl or phenyl substituted with -(C_1 - C_6)alkyl, halo, - CF_3 -- OCF_3 --(C_1 - C_4)alkoxy, -CN -(C_1 - C_4)alkylthio, phenyl(C_1 - C_4) alkyl, -(C_1 - C_4)alkylphenyl, phenoxy or naphthyl.

Z is cyclohexenyl, or phenyl.

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or a pharmaceutically acceptable racemate, solvate, tautomer, optical isomer, prodrug derivative or salt, thereof

- 31. A method as claimed in any one of Claims 29 or 30 wherein the mammal is a human
- 32. A method of alleviating the pathological effects of sPLA₂ related diseases which comprises administering to a mammal in need of such treatment a compound of formula I as claimed in any one of Claims 1-23 in an amount sufficient to inhibit sPLA₂ mediated release of fatty acid and to thereby inhibit or prevent the arachidonic acid cascade and its deleterious products
- 33. The use of a compound as claimed in any one of Claims 1-23 for the manufacture of a medicament for alleviating the pathological effects of sPLA₂ related diseases which comprises administering to a mammal in need of such treatment a compound of formula !
- 25 34. A method of inhibiting sPLA₂ which comprises contacting the sPLA₂ with a compound as claimed in any one of Ctaims 1-23
 - 35. A method of treating sepsis, septic shock, rheumatoid arthritis, osteoarthritis, stroke, apoptosis, asthma, chronic bronchitis, acute bronchitis, cystic fibrosis inflammatory bowel disease, or pancreatitis which comprises administering to a subject in need of such treatment, a therapeutically effective amount of a compound of formula !

$$\begin{array}{c|c}
R^{2^{1}} & COR^{1} \\
\hline
7 & 8 & Z & 2 \\
\hline
R^{3^{1}} & R^{20} & (1)
\end{array}$$

wherein:

Z is cyclohexenyl, or phenyl, R²⁰ is selected from groups (a), (b) and (c) where;

- (a) is-(C5-C20)alkyl.-(C5-CaO)alkenyl,-(C5-C20)alkynyl. carbocyclic radicals. or heterocyclic radicals, or
- (b) is a member of (a) substituted with one or more independently selected non-interfering substituents, or
- (c) is the group -(L)-R⁸⁰, where, (L)-is a divalent linking group of 1 to 12 atoms selected from carbon, hydrogen, oxygen, nitrogen, and sulfur; wherein the combination of atoms in -(L)- are selected from the group consisting of (i) carbon and hydrogen only, (ii) one sulfur only, (iii) one xygen only, (iv) on ritwo

nitrogen and hydrogen only. (v) carbon, hydrogen, and one sulfur only, and (vi) an carbon, hydrogen, and oxygen only, and where R⁸⁰ is a group selected from (a) or (b)

R21 is a non-interfering substituent where f is 1-3.

R1 is -NHNH2 -NH2 or -CONH2:

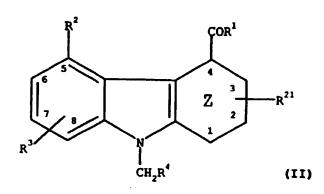
R2 is selected from the group consisting of -OH, and -O(CH₂)_RP5 where

 R^5 is H. -CN, -NH₂. -CONH₂. -CONH $^9R^{10}$ -NHSO₂R¹⁵ -CONHSO₂R¹⁵. where R¹⁵ is -(C₁-C₆)alkyl or -CF₃: phenyl or phenyl substituted with -CO₂H or -CO₂(C₁-C₄)alkyl, and -(L_a)-(acidic group), wherein -(L_a)- is an acid linker having an acid linker length of 1 to 7 and 1 is 1-5

R3' is selected from non-interfering substituent, carbocyclic radicals, carbocyclic radicals substituted with non-interfering substituents, heterocyclic radicals, and heterocyclic radicals substituted with non-interfering substituents.

or a pharmaceutically acceptable racemate, solvate, tautomer optical isomer, prodrug derivative or salt, thereof

36. A method of treating sepsis. septic shock inheumatoid arthritis, osteoarthritis, stroke, apoptosis asthma chronic bronchitis acute bronchitis cystic fibrosis inflammatory bowel disease, or pancreatitis which comprises administering to a subject in need of such treatment, a therapeutically effective amount of a compound of formula II



wherein.

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Z is cyclohexenyl, or phenyl, R^{21} is a non-interfering substituent. R^{1} is -NHNH₂ or -NH₂: R^{2} is selected from the group consisting of -OH and -O(CH₂)_mR⁵ where R^{5} is H. -CO₂H, -CONH₂, -CO₂(C₁-C₄ alkyl):

O -P(R⁶R⁷)

where R⁶ and R⁷ are each independently -OH or -O(C₁-C₄)alkyl.-SO₃H. -SO₃(C1-C4 alkyl), tetrazolyl. -CN, -NH₂-NHSO₂R¹⁵ -CONHSO₂R¹⁵, where R¹⁵ is -(C₁-C₆)alkyl or-CF₃, phenyl or phenyl substituted with -CO₂H or-CO₂(C₁-C₄)alkyl where m is 1-3:

 R^3 is H . $-\mathsf{O}(\mathsf{C}_1\text{-}\mathsf{C}_4)$ alkyl, halo, $-(\mathsf{C}_1\text{-}\mathsf{C}_6)$ alkyl, phenyl, $-(\mathsf{C}_1\text{-}\mathsf{C}_6)$ alkyl, halo or $-\mathsf{CF}_3$. $-\mathsf{CH}_2\mathsf{OSi}(\mathsf{C}_1\text{-}\mathsf{C}_6)$ alkyl, furyl. thiophenyl, $-(\mathsf{C}_1\text{-}\mathsf{C}_6)$ hydroxyalkyl: or $-(\mathsf{CH}_2)_n\mathsf{R}^6$ where R^8 is H . $-\mathsf{CONH}_2$ $-\mathsf{NR}^9\mathsf{R}^{10}$ $-\mathsf{CN}$ or phenyl where R^9 and R^{10} are independently $-(\mathsf{C}_1\text{-}\mathsf{C}_4)$ alkyl or -phenyl $-(\mathsf{C}_1\text{-}\mathsf{C}_4)$ alkyl and n is 1 to 8.

 R^4 is H -{ C_5 - C_{14} }alkyl, -{ C_3 - C_{14} }cycloalkyl. pyridyl, phenyl or phenyl substituted with -{ C_1 - C_6 }alkyl. halo. - CF_3 - OCF_3 .-{ C_1 - C_4 }alkoxy, -CN.-{ C_1 - C_4 }alkylthio, phenyl, phenoxy, phenoxy, -CN- C_1 - C_2 - C_3 - C_1 - C_4 - C_4 - C_1 - C_4 - C_3 - C_1 - C_4 - C_4 - C_1 - C_4 - C_1 - C_2 - C_3 - C_1 - C_4 - C_1 - C_2 - C_3 - C_1 - C_3 - C_1 - C_3 - C_1 - C_2 - C_3 - C_1 - C_2 - C_1 - C_2 - C_1 - C_2 - C_1 - C_2 - C_3 - C_1 - C_2 - C_2 - C_2 - C_1 - C_2 -

or naphthyl.

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or a pharmaceutically acceptable racemate, solvate tautomer, optical isomer, prodrug derivative or salt, thereof

- 37. A method as claimed in any one of Claims 30-31 of alleviating the pathological effects of sepsis, septic shock, adult respiratory distress syndrome pancreatitis, trauma-induced shock, bronchial asthma allergic minitis, meumatoid arthritis, cystic fibrosis, stroke, acute bronchitis, chronic bronchitis, acute bronchiolitis chronic bronchiolitis, osteoarthritis, gout, spondylarthropathris, ankylosing spondylitis. Reiter's syndrome, psonatic arthropathy, enterapathric spondylitis, Juvenile arthropathy or juvenile ankylosing spondylitis. Reactive arthropathy, infectious or post-infectious arthritis, gonoccocal arthritis, Tuberculous arthritis, viral arthritis, fungal arthritis, syphilitic arthritis, Lyme disease, arthritis associated with "vasculitic syndromes" polyarteritis nodosa, hypersensitivity vasculitis, Luegenec's granulomatosis, polymyalgin rheumatica, joint cell arteritis calcium crystal deposition arthropathris. pseudo gout. non-articular rheumatism. bursitis. tenosynomitis. epicondylitis (tennis elbow), carpal tunnel syndrome, repetitive use injury (typing), miscellaneous forms of arthritis, neuropathic joint disease (charco and joint), hemarthrosis (hemarthrosic), Henoch-Schonlein Purpura, hypertrophic osteoarthropathy, multicentric reticulohistiocytosis, arthritis associated with certain diseases, surcoilosis, hemochromatosis, sickle cell disease and other hemoglobinopathries, hyperlipoproteineimia, hypogammaglobulinemia hyperparathyroidism, acromegaly, familial Mediterranean fever, Behat's Disease, systemic lupus erythrematosis, or relapsing polychondritis, and related diseases which comprises administering to a mammal in need of such treatment a therapeutically effective amount of a compound of formula II.
 - 38. A compound of the formula

wherein

PG is an acid protecting group R²¹ is a non-interfering substituent, R¹² is H or CH₂R⁴ where

 R^4 is H , $-(\mathsf{C}_5-\mathsf{C}_{14})$ alkyl, $-(\mathsf{C}_3-\mathsf{C}_{14})$ cycloalkyl. pyridyl, phenyl or phenyl substituted with from 1-5 substituents selected from the group consisting of $-(\mathsf{C}_1-\mathsf{C}_6)$ alkyl. halo $-\mathsf{CF}_3$. $-(\mathsf{CF}_3-\mathsf{C}_4)$ alkoxy, $-\mathsf{CN}$. $-(\mathsf{C}_1-\mathsf{C}_4)$ alkylthio. phenyl $(\mathsf{C}_1-\mathsf{C}_4)$ alkyl, $-(\mathsf{C}_1-\mathsf{C}_4)$ alkylphenyl, phenoxy, $-\mathsf{OR}^9$: where R^9 and R^{10} are independently hydrogen. $-\mathsf{CF}_3$. phenyl, $-(\mathsf{C}_1-\mathsf{C}_4)$ alkyl, $-(\mathsf{C}_1-\mathsf{C}_4)$ alkyl, $-(\mathsf{C}_1-\mathsf{C}_4)$ alkyl, $-(\mathsf{C}_1-\mathsf{C}_4)$ alkyl, $-(\mathsf{C}_1-\mathsf{C}_4)$ alkyl, or $-(\mathsf{C}_1-\mathsf{C}_4)$ alkyl or $-(\mathsf{C}_1-\mathsf{C}_4)$ alkylphenyl: or naphthyl:

 $\mathsf{R}^3(a)$ is H, -O(C1-C4)alkyl, halo, -(C1-C6)alkyl, phenyl, -(C1-C4)alkylphenyl, phenyl substituted with-(C1-C6) alkyl, halo or -CF3; -CH2OSi(C1-C6)alkyl, furyl, thiophenyl, -(C1-C6)hydroxyalkyl, -(C1-C6)alkoxy(C1-C6)alkoxy(C1-C6)alkoxy(C1-C6)alkyl, -(C1-C6)alkoxy(C1-C6)alkoxy(C1-C6)alkyl, -(C1-C6)alkoxy(C1-C6)alkyl, -(C1-C6)alkylphenyl or -phenyl where R9 and R10 are independently hydrogen. -CF3, phenyl. -(C1-C4)alkyl, -(C1-C4)alkylphenyl or -phenyl(C1-C4)alkyl and n is 1 to 8: Z is cyclohexenyl or phenyl, and X is halo.

39. A compound of formula

XVIII

where PG is an acid protecting group

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R21 is a non-interfering substituent, and

 $\mathsf{R}^3(a)$ is H. -O(C1-C4)alkyl halo -(C1-C6)alkyl phenyl -(C1-C4)alkylphenyl phenyl substituted with-(C1-C6) alkyl halo or -CF3. -CH2OSi(C1-C6) alkyl, furyl thiophenyl -(C1-C6)hydroxyalkyl -(C1-C6)alkoxy(C1-C6) alkyl -(C1-C6)alkoxy(C1-C

40. A compound of the formula (IV)

$$R^{3(a)}$$

$$R^{12}$$

$$R^{21}$$

$$CO_{2}PG$$
(IV)

PG is an acid protecting group

R21 is a non-interfering substituent

R12 is H or CH₂R4 where

 R^4 is H. $-(C_5-\overline{C_{14}})$ alkyl. $-(C_3-\overline{C_{14}})$ cycloalkyl, pyridyl, phenyl or phenyl substituted with from 1-5 substituents selected from the group consisting of $-(C_1-\overline{C_6})$ alkyl. halo. $-C\overline{F_3}$ $-(C_1-\overline{C_4})$ alkyl. $-(C_1-\overline{C_4})$ alkyl. halo. $-(C_1-\overline{C_4})$ alkyl. $-(C_1-\overline{C_4})$ alkyl. phenyl phenyl, phenoxy, $-(C_1-\overline{C_4})$ alkyl. $-(C_1-\overline{C_4})$ alkyl. phenyl or -phenyl $-(C_1-\overline{C_4})$ alkyl. $-(C_1-\overline{C_4})$ alkyl. phenyl or -phenyl $-(C_1-\overline{C_4})$ alkyl. $-(C_1-\overline{C_4})$ alkyl. or $-(C_1-\overline{C_4})$ alkyl. or naphthyl.

 $R^3(a)$ is H. $-O(C_1-C_4)alkyl.$ halo, $-(C_1-C_6)alkyl,$ phenyl $-(C_1-C_4)alkylphenyl phenyl substituted with-<math display="inline">(C_1-C_6)alkyl$ halo or $-CF_3$ $-CH_2OSi(C_1-C_6)alkyl,$ furyl, thiophenyl,- $(C_1-C_6)hydroxyalkyl,$ $-(C_1-C_6)alkoxy(C_1-C_6)alkyl,$ $-(C_1-C_6)alkoxyl(C_1-C_6)alkoxyl(C_1-C_6)alkoxyl(C_1-C_6)alkoxyl(C_1-C_6)alkoxyl(C_1-C_6)alkoxyl(C_1-C_4)alkyl,$ or $-(CH_2)_nR^8$ where R^8 is H.-NR $^9R^{10}$. -CN or phenyl where R^9 and R^{10} are independently hydrogen, -CF $_5$ phenyl, -(C $_1$ -C $_4$)alkyl,-(C $_1$ -C $_4$)alkylphenyl or -phenyl(C $_1$ -C $_4$)alkyl and n is 1 to 8. R11 is -OH =0. -O(C $_1$ -C4)alkyl or -O(CH $_2$)R15, where R^{15} is -CO $_2$ R16, -SO $_3$ R16, P(O)(OR16) $_2$ or -P(O)(OR16) H, where R16 is an acid protecting group : and

A and Z are each independently phenyl or cyclohexenyl provided that A and Z cannot both be phenyl

41. A process of preparing compounds of formula II

$$\begin{array}{c|c}
R^2 & COR^1 \\
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 & & & & \\
\hline
 & &$$

15 wherein

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Z is cyclohexenyl, or phenyl,
R²¹ is a non-interfering substituent.
R¹ is -NHNH₂ or -NH₂;
R² is selected from the group consisting

 $\rm H^2$ is selected from the group consisting of -OH, -O(CH₂)_mH⁵ where H⁵ is H, -CO₂H, -CO₂(C₁-C₄ alkyl).

where H^6 and H^7 are each independently -OH or -O(C_1 - C_4)alkyl. -SO₃H.-SO₃(C1-C4 alkyl). tetrazolyl, -CN, -NH₂, -NHSO₂ H_{15} .-CONHSO₂ H^{15} , where H^{15} is -(C_1 - C_6)alkyl or -CF₃, phenyl or phenyl substituted with -CO₂H or -CO₂(C_1 - C_4)alkyl where m is 1-3:

 R^3 is H. $-O(C_1-C_4)$ alkyl, halo, $-(C_1-C_6)$ alkyl, phenyl. $-(C_1-C_4)$ alkylphenyl; phenyl substituted with $-(C_1-C_6)$ alkyl, halo, or $-CF_3$. $-CH_2OSi(C_1-C_6)$ alkyl, furyl, thiophenyl. $-(C_1-C_6)$ hydroxyalkyl, or $-(CH_2)_nR^6$ where R^8 is H. $-CONH_2$ $-NR^9R^{10}$ -CN or phenyl where R^9 and R^{10} are independently $-(C_1-C_4)$ alkyl or $-(C_1-C_4)$ alkyl and n is 1 to 8;

 R^4 is H -(C_5 - C_{14})alkyl. -(C_3 - C_{14})cycloalkyl. pyridyl, phenyl or phenyl substituted with-(C_1 - C_6)alkyl, halo. - CF_3 ,-(C_1 - C_4)alkyzy. -CN.-(C_1 - C_4)alkylthio. phenyl(C1- C_4)alkyl. -(C_1 - C_4) alkylphenyl, phenyl, phenoxy or naphthyl.

or a pharmaceutically acceptable racemate, solvate, tautomer, optical isomer, prodrug derivative or salt, thereof.

a) esterifying a compound of formula XVI

where X is halo;

t form a compound of formula XV

b)reducing a compound of formula XV to form a compound of formula XIV

where PG is an acid protecting group c) condensing a compound of formula XIV with a compound of formula XIII

 $where \ \mathsf{R}^3(a) \ \text{is H. -O}(\mathsf{C}_1 - \mathsf{C}_4) \\ \text{alkyl halo.-}(\mathsf{C}_1 - \mathsf{C}_6) \\ \text{alkyl, phenyl. -}(\mathsf{C}_1 - \mathsf{C}_4) \\ \text{alkylphenyl: phenyl substituted with -}(\mathsf{C}_1 - \mathsf{C}_6) \\ \text{alkylphenyl: phenyl subst$ C_6)alkyl, halo or - CF_3 : - $CH_2OS_1(C_1-C_6)$ alkyl, furyl, thiophenyl, - (C_1-C_6) hydroxyalkyl, or - $(CH_2)_n$ R8 where R8 is H. - NR^9R^{10} . -CN or phenyl where R9 and R10 are independently- (C_1-C_4) alkyl or -phenyl (C_1-C_4) alkyl and n is 1 to 8 to form a compound of formula XII

55 d) cyclizing a compound of formula XII to form a compound of formula VI

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e) alkylating a compound of formula XI with an alkylating agent of the formula XCH_2H^4 , where X is halo to form a compound of formula X

f) dehydrogenating a compound of formula X to form a compound of formula IX

g) aminating a compound of formula IX to form a compound of formula VIII

h) alkylating a compound of formula VIII with an alkylating agent of formula XCH_2R^{16} wher X is halo and R^{15} is $-CO_2R^{16}$ $-SO_3R^{16}$. -P(O) $(OR^{16})_2$. or $-P(O)(OR^{16})H$ where R^{16} is an acid protecting group to form a compound of formula VII

 optionally hydrolyzing a compound of formula VII to form a compound of formula I and optionally salifying a compound of formula I.

42. A process for preparing compounds of formula (II).

$$\begin{array}{c|c}
R^2 & COR^1 \\
\hline
 & & & & \\
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 & &$$

wherein;

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Z is cyclohexenyl, or phenyl, R^{21} is a non-interfering substituent R^{1} is -NHNH₂ or -NH₂. R^{2} is selected from the group consisting of -OH and -O(CH₂)_mR⁵ where R^{5} is H. -CO₂H. -CONH₂. -CO₂(C₁-C₄ alkyl).

O -P(R6R7),

where H^6 and H^7 are each independently -OH or -O(C_1 - C_4)alkyl:-SO₃H, -SO₃(C1-C4 alkyl), tetrazolyl. -CN, -NH₂.-NHSO₂H¹⁵. -CONHSO₂H¹⁵, where H^{15} is -(C_1 - C_6)alkyl or-CF₃, phenyl or phenyl substituted with -CO₂H or-CO₂(C_1 - C_4)alkyl where m is 1-3.

 R^3 is $H^{-O}(C_1^-C_4)$ alkyl, halo. $-(C_1^-C_6)$ alkyl, phenyl. $-(C_1^-C_6)$ alkyl, halo. or $-(C_1^-C_6)$ alkyl, halo. or $-(C_1^-C_6)$ alkyl, furyl. this phenyl. $-(C_1^-C_6)$ hydroxyalkyl: or $-(CH_2)$ $-(CH_2)$ where R^6 is H $-(CONH_2, -NR^9R^{10})$ -(CN) or phenyl where R^9 and R^{10} are independently $-(C_1^-C_4)$ alkyl or $-(C_1^-C_4)$ alkyl and $-(C_1^-C_4)$ alkyl and $-(C_1^-C_4)$ alkyl or $-(C_1^-C_4)$ alkyl and $-(C_1^-C_4)$ alkyl or $-(C_1^-C_4)$ alkyl and $-(C_1^-C_4)$ alkyl are independently $-(C_1^-$

 R^4 is H. -{C₅-C₁₄}alkyl. -{C₃-C₁₄}cycloalkyl, pyridyl, phenyl r phenyl substituted with -{C₁-C₆}alkyl. halo. -CF₃-OCF₃,-(C₁-C₄)alkycxy, -CN,-(C₁-C₄)alkylthi , phenyl(C1-C₄)alkyl, -(C₁-C₄)alkylphenyl ph nyl, phenoxy

or naphthyl

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or a pharmaceutically acceptable racemate, solvate fautomer, optical isomer, prodrug derivative or salt, thereof which process comprises the steps of

a) esterifying a compound of formula XVI

20 XVI

where X is halo to form a compound of formula XV

where PG is an acid protecting group.

b) condensing a compound of formula XV with a compound of formula XVII

MeO
 $^{(HO)}_{2}B$
 $^{(R_{3}(a))}$
 $^{(SO)}$

to form a compound of formula XVIII

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XVIII

c) cyclizing a compound of formula XVIII to form a compound of formula XIX

d) alkylating a compound of formula XIX with an alkylating agent of the formula XCH_2P^4 , where X is halo, to form a compound of formula XX

e) dealkylating a compound of formula XX to form a compound of formula IX

IX

f) aminating compound of formula IX to form a compound of formula VIII

VIII

g) alkylating a compound of formula VIII with an alkylating agent of formula XCH₂R15, where X is halo and R15 is -CO₂R16, -SO₃R16 P(O) (OR16)₂, or-P(O) (OR16)H where R16 is an acid protecting group to form a compound of formula VII

VII

h) optionally hydroyzing a compound of formula VII to form a compound of formula I and optionally salifying a compound of formula I

43. A comp und which is selected from the group consisting of .

(3-Carbomethoxy-2-bromoanilino)-5-methyl-cyclohex-2-en-1-one;

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5-Carbomethoxy-1.2-dihydr -2-methyl-9H-carbazol-4(3H)-one.
               9-Benzyl-5,7-dimethoxy-1.2.3 4-tetrahydrocarbazole-4-carboxamide.
               9-Benzyl-5-hydroxy-7-methoxy-1.2.3,4-tetrahydrocarbazole-4-carboxamide
               [9-Benzyl-4-carbamoyl-7-methoxy-1 2 3.4-tetrahydrocarbazol-5-yl|oxyacetic acid, ethyl ester,
  5
               9-Benzyl-4-carbamoyl-5.7-dimethoxycarbazole.
               9-Benzyl-4-carbamoyl-5-hydroxy-7-methoxycarbazole.
               [9-Benzyl-4-carbamoyl-7-methoxycarbazol-5-yl]oxyacetic acid methyl ester
               [(2.9-Bis-benzyl-4-carbamoyl-1,2.3.4-tetrahydro-beta-carbazol-5-yl)oxy]acetic acid. ethyl ester.
               (3-Carbomethoxy-2-bromoanilino)-5-methyl-cyclohex-2-en-1-one:
 10
               5-Carbomethoxy-1 2-dihydro-2-methyl-9H-carbazol-4(3H)-one.
               [(Phenyl)methyl]-5-carbomethoxy-2-methyl-1.2-dihydrocarbazol-4(3H)-one
               [(Phenyl)methyl]-2-methyl-4-hydroxy-5-carbomethoxy carbazole.
               [(Phenyl)methyl]-2-methyl-4-hydroxy-5-carbamoyl carbazole.
               [(Phenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid. methyl ester
 15
               [(3-Fluorophenyl)methyl]-5-carbomethoxy-2-methyl-1.2-dihydrocarbazol-4(3H)-one
               [(3-Fluorophenyl)methyl]-2-methyl-4-hydroxy-5-carbomethoxy carbazole
               [(3-Fluorophenyl)methyl]-2-methyl-4-hydroxy-5-carbamoyl carbazole.
               [(3-Fluorophenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid methyl ester
               [(3-Methylphenyl)methyl]-5-carbomethoxy-2-methyl-1 2-dihydrocarbazol-4(3H)-one
 20
               [(3-Methylphenyl)methyl]-2-methyl-4-hydroxy-5-carbomethoxy carbazole
               [(3-Methylphenyl)methyl]-2-methyl-4-hydroxy-5-carbamovi carbazole:
               [(3-Methylphenyl)methyl]-2-methyl-5-carbamoylcarbazol-4-yl]oxyacetic acid. methyl ester.
               (3-Carbomethoxy-2-bromoanilino)-5-(4-trifluoromethylphenyl-cyclohex-2-en-1-one.
               5-Carbornethoxy-1.2-dihydro-2-(4-trifluoromethylphenyl)-9H-carbazol-4(3H)-one.
25
               [(Phenyl)methyl]-5-carbomethoxy-2-(4-trifluoromethylphenyl)-1.2-dihydrocarbazol-4(3H)-one.
               [(Phenyl)methyl]-2-(4-trifluoromethylphenyl)-4-hydroxy-5-carbomethoxy carbazole.
               [(Phenyi)methyi]-2-(4-trifluoromethylphenyi)-4-hydroxy-5-carbamoyi carbazole.
              [(Phenyl)methyl]-2-(4-trifluoromethylphenyl)-5-carbamoylcarbazol-4-yl}oxyacetic acid methyl ester.
               (2-Bromo-3-carbomethoxyanilino)-5-pentylcyclohex-2-en-1-one
30
              5-Carbomethoxy-1.2-dihydro-2-pentyl-9H-carbazol-4(3H)-one
              5-Carbomethoxy-1.2-dihydro-2-pentyl-9-(phenylmethyl)carbazol-4(3H)-one:
              5-Carbomethoxy-4-hydroxy-2-pentyl-9-(phenylmethyl)carbazole.
              5-Carbamoyi-4-hydroxy-2-pentyi-9-(phenyimethyi)carbazole.
              [5-Carbamoyl-2-pentyl-9-rphenylmethyl)carbazol-4-yl]oxyacetic acid, methyl ester.
35
              (2-Bromo-3-carbomethoxyanılıno)-5-[(1-methyl)ethyl]cyclohex-2-en-1-one:
              5-Carbomethoxy-1.2-dihydro-2-(1-methylethyl)-9H-carbazol-4(3H)-one
              5-Carbornethoxy-1.2-dihydro-2-(1-methylethyl)-9-(phenylmethyl)carbazol-4(3H)-one
              5-Carbornethoxy-4-hydroxy-2-(1-methylethyl)-9-(phenylmethyl)carbazole
              5-Carbamoyi-4-hydroxy-2-(1-methylethyl)-9-(phenylmethyl)carbazole
40
              [5-Carbamoyl-2-(1-methylethyl)-9-(phenylmethyl)carbazol-4-yljoxyacetic acid. methyl ester.
              (2-Bromo-3-carbomethoxyanılino)-5-(hydroxymethyl)cyclohex-2-en-1-one.
              5-Carbomethoxy-1,2-dihydro-2-(hydroxymethyl)-9H-carbazol-4(3H)-one.
              5-Carbomethoxy-1,2-dihydro-2-(hydroxymethyl)-9-(phenylmethyl)carbazol-4(3H)-one.
              [5-Carbamoyl-9-(phenylmethyl)-2-{(In(-1-methylethyl)silyl)oxymethyl]carbazol-4-yl]oxyacetic acid, methyl es-
45
              ter.
              (2-Bromo-3-carbomethoxyanilino)-5-phenylcyclohex-2-en-1-one
              5-Carbomethoxy-1.2-dihydro-2-phenyl-9H-carbazol-4(3H)-one:
              5-Carbomethoxy-1 2-dihydro-2-phenyl-9-(phenylmethyl)carbazol-4(3H)-one:
              5-Carbomethoxy-4-hydroxy-2-phenyl-9-(phenylmethyl)carbazole.
              5-Carbamoyl-4-hydroxy-2-phenyl-9-(phenylmethyl)carbazole
50
              [5-Carbamoyl-2-phenyl-9-(phenylmethyl)carbazol-4-yl]oxyacetic acid. methyl ester.
              (2-Bromo-3-carbomethoxyanilino)-5-(4-chlorophenyl)cyclohex-2-en-1-one:
              5-Carbomethoxy-1.2-dihydro-2-(4-chlorophenyl)-9H-carbazol-4(3H)-one.
              5-Carbomethoxy-1.2-dihydro-2-(4-chlorophenyl)- 9-(phenylmethyl)carbazol-4(3H)-one.
55
              5-Carbomethoxy-2-(4-chlorophenyl)-4-hydroxy-9-(phenylmethyl)carbazole.
              5-Carbamoyl-2-(4-chlorophenyl)-4-hydr xy-9-(phenylmethyl)carbazole,
             [5-Carbamoyl-2-(4-chloroph nyl)-9-(phenylmethyl)carbazol-4-yl] xyacetic acid, methyl ester.
              (2-Bromo-3-carbomethoxyanilino)-5-(2-furyl)cyclohex-2-en-1-on :
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5-Carbomethoxy-1,2-dihydro-2-(2-furyl)-9H-carbazol-4(3H)-one.
               5-Carbomethoxy-1,2-dihydro-2-(2-furyl)-9-(phenylmethyl)carbazol-4(3H)-one
               5-Carbomethoxy-2-(2-furyl)-4-hydroxy-9-(phenylmethyl)carbazole.
               5-Carbamoyl-2-(2-luryl)-4-hydroxy-9-(phenylmethyl)carbazole
               [5-Carbamoyl-2-(2-furyl)-9-(phenylmethyl)carbazol-4-yl]oxyacetic acid. methyl ester:5-Carbomethoxy-1,2-di-
 5
               hydro-9-(phenylmethyl)-2-[(lri(-1-methylethyl)silyl)oxymethyl]carbazol-4(3H)-one;
               5-Carbomethoxy-4-hydroxy-9-(phenylmethyl)-2-[(tri(-1-methylethyl)silyl)oxymethyl]carbazole.
               5-Carbamoyl-4-hydroxy-9-(phenylmethyl)-2-[(tri(-1-methylethyl)silyl)oxymethyl[carbazole.
               [5-Carbamoyl-9-(phenylmethyl)-2-[(tri(-1-methylethyl)silyl)oxymethyl]carbazol-4-yl]oxyacetic acid. methyl es-
 10
               (3-Carbomethoxy-2-chloroanilino)cyclohex-2-en-1-one
               5-Carbomethoxy-1.2-dihydro-9H-carbazol-4(3H)-one
               (3-Carbomethoxy-2-bromoanilino)cyclohex-2-en-1-one.
               [(Phenyl)methyl]-5-carbomethoxy-1 2-dihydrocarbazol-4(3H)-one.
 15
               [(Phenyl)methyl]-4-hydroxy-5-carbomethoxy carbazole
               [(Phenyl)methyl]-4-hydroxy-5-carbamoyl carbazole:
               [(Phenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid, methyl ester.
               [(3-Fluorophenyl)methyl]-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one
               [(3-Fluorophenyl)methyl]-4-hydroxy-5-carbomethoxy carbazole
 20
               [(3-Fluorophenyl)methyl]-4-hydroxy-5-carbamoyl carbazole:
               [(3-Fluorophenyl)methyl]-5-carbamoylcarbazol-4-yl}oxyacetic acid, tert-butyl ester
               [(3-Chlorophenyl)methyl]-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one.
               [(3-Chlorophenyl)methyl]-4-hydroxy-5-carbomethoxy carbazole
               [(3-Chlorophenyl)methyl]-4-hydroxy-5-carbamoyl carbazole.
25
               [(3-Chlorophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid, tert-butyl ester
              [(3-Phenoxyphenyl)methyl]-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one:
              [(3-Phenoxyphenyl)methyl]-4-hydroxy-5-carbomethoxy carbazole.
              [(3-Phenoxyphenyl)methyl]-4-hydroxy-5-carbamoyl carbazole:
              [(3-Phenoxyphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid. tert-butyl ester:
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              [(2-Fluorophenyl)methyl]-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one.
              [(2-Fluorophenyl)methyl]-4-hydroxy-5-carbomethoxy carbazole.
              [(2-Fluorophenyl)methyl]-4-hydroxy-5-carbamoyl carbazole.
              [(2-Fluorophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid. methyl ester.
              [(2-Trifluoromethylphenyl)methyl]-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one
35
              [(2-Trifluoromethylphenyl)methyl]-4-hydroxy-5-carbomethoxy carbazole.
              [(2-Trifluoromethylphenyl)methyl]-4-hydroxy-5-carbamoyl carbazole.
              [(2-Trifluoromethylphenyl)methyl]-5-carbamoylcarbazol-4-yl)oxyacetic acid, methyl ester.
              [(2-Benzylphenyl)methyl]-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one-
              [(2-Benzylphenyl)methyl]-4-hydroxy-5-carbomethoxy carbazole.
40
              [(2-Benzylphenyl)methyl]-4-hydroxy-5-carbamoyl carbazole:
              [(2-Benzylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid. methyl ester
              [(3-Trifluoromethylphenyl)methyl]-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one.
              [(3-Trifluoromethylphenyl)methyl]-4-hydroxy-5-carbornethoxy carbazole.
              [(3-Trifluoromethylphenyl)methyl]-4-hydroxy-5-carbamoyl carbazole
45
              [(3-Trifluoromethylphenyl)methyl]-5-carbamoylcarbazol-4-yl)oxyacetic acid. methyl ester.
              [(1-Naphthyl)methyl]-5-carbomethoxy-1 2-dihydrocarbazol-4(3H)-one.
              [(1-Naphthyl)methyl]-4-hydroxy-5-carbomethoxy carbazole
              [(1-Naphthyl)methyl]-4-hydroxy-5-carbamoyl.
              [(1-Naphthyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid. methyl ester.
50
              [(2-Cyanophenyl)methyl]-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one.
              [(2-Cyanophenyl)methyl]-4-hydroxy-5-carbomethoxy carbazole.
              [(2-Cyanophenyl)methyl]-4-hydroxy-5-carbamoyl carbazole:
             [(2-Cyanophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid. methyl ester:
             [(3-Cyanophenyl)methyl]-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one.
55
             [(3-Cyanophenyl)methyl]-4-hydroxy-5-carbomethoxy carbazole.
             [(3-Cyanophenyl)methyl]-4-hydr xy-5-carbamoyl carbazole;
             [(3-Cyanophenyl)methyl]-5-carbamoylcarbaz I-4-yl]oxyacetic acid, t rt-butyl ester
             [(2-Methylphenyl)methyl]-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one.
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	[(2-Methylphenyl)methyl]-4-hydroxy-5-carbomethoxy carbazole
	[(2-Methylphenyl)methyl]-4-hydroxy-5-carbamoyl carbazole:
	[(2-Methylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid. methyl ester.
	[(3-Methylphenyl)methyl]-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one.
5	[(3-Methylphenyl)methyl]-4-hydroxy-5-carbomethoxy carbazole:
	[(3-Methylphenyl)methyl]-4-hydroxy-5-carbamoyl carbazole,
	[(3-Methylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid. methyl ester
	[(3 5-Dimethylphenyl)methyl]-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one.
	[(3 5-Dimethylphenyl)methyl]-4-hydroxy-5-carbornethoxy carbazole,
10	[(3 5-Dimethylphenyl)methyl]-4-hydroxy-5-carbamoyl
	[(3.5-Dimethylphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid, methyl ester
	[(3-lodophenyl)methyl]-5-carbomethoxy-1 2-dihydrocarbazol-4(3H)-one
	[(3-lodophenyi)methyl]-4-hydroxy-5-carbomethoxy carbazole
	[(3-lodophenyl)methyl]-4-hydroxy-5-carbamoyl carbazole
15	[(3-lodophenyl)melhyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid methyl ester
	[(2-Chlorophenyl)methyl]-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one
	[(2-Chlorophenyl)methyl]-4-hydroxy-5-carbomethoxy carbazole.
	[(2-Chlorophenyl)methyl] -4-hydroxy-5-carbamoyl carbazole:
	[(2-Chlorophenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid. tert-butyl ester.
20	[(2 3-Difluorophenyl)methyl]-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one.
	[(2 3-Difluorophenyl)methyl]-4-hydroxy-5-carbomethoxy carbazol.
	[(2.3-Difluorophenyl)methyl]-4-hydroxy-5-carbamoyl carbazole.
	[(2 3-Difluorophenyl)methyl]-5-carbamoylcarbazol-4-yljoxyacetic acid. methyl ester.
	[(2 6-Difluorophenyl)methyl]-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one
25	[(2,6-Difluorophenyl)methyl]-4-hydroxy-5-carbomethoxy carbazole:
	[(2.6-Difluorophenyl)methyl]-4-hydroxy-5-carbamoyl.
	[(2.6-Difluorophenyl)methyl]-5-carbamoylcarbazol-4-yljoxyacetic acid, methyl ester
	(2.6-Dichlorophenyl)methyl]-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one.
	[(2.6-Dichlorophenyl)methyl]-4-hydroxy-5-carbornethoxy carbazole:
30	[(2.6-Dichlorophenyl)methyl]-4-hydroxy-5-carbamoyl carbazole
	[(2,6-Dichlorophenyl)methyl]-5-carbamoylcarbazol-4-yl)oxyacetic acid methyl ester:
	[(3-Trifluoromethoxyphenyl)methyl]-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one.
	[(3-Trifluoromethoxyphenyl)methyl]-4-hydroxy-5-carbomethoxy carbazole.
	[(3-Trifluoromethoxyphenyl)methyl]-4-hydroxy-5-carbamoyl carbazole
35	[(3-Trifluoromethoxyphenyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid. methyl ester.
	2-Carbomethoxy-6-nitro-2'-methoxy-biphenyl:
	9H-4-methoxy-5-carbomethoxy carbazole.
	[(2-Biphenyl)methyl]-4-methoxy-5-carbomethoxy carbazole
	[(2-Biphenyl)methyl]-4-hydroxy-5-carbomethoxy carbazole
40	[(2-Biphenyl)methyl]-4-hydroxy-5-carbarnoyl carbazole
	[(2-Biphenyl)methyl]-5-carbamoylcarbazol-4-yljoxyacetic acid_tert-butyl ester.
	[(2-Biphenyl)methyl]-5-carbamoylcarbazol-4-yl oxyacetic acid methyl ester.
	9-Benzyl-4-carboxy-5-methoxy-1.2.3 4-tetrahydrocarbazole, ethyl ester:
	9-Benzyl-4-carbamoyl-5-hydroxy-1 2,3,4-tetrahydrocarbazole
45	9-benzyl-4-carboxy-5-hydroxy-1_2.3.4-tetrahydrocarbazole, ethyl ester :
	[9-Benzyl-4-carbamoyl-1 2,3,4-tetrahydrocarbaole-5-ylloxyacetic acid methyl ester
	[(2-Pyndyl)methyl]-5-carbomethoxy-1,2-dihydrocarbazol-4(3H)-one.
	[(2-Pyndyl)methyl]-4-hydroxy-5-carbomethoxy carbazole.
	[(2-Pyridyl)methyl]-4-hydroxy-5-carbamoyl carbazole.
50	[(2-Pyridyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid, methyl ester:
	[(3-Pyridyl)methyl]-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one:
	[(3-Pyridyl)methyl]-4-hydroxy-5-carbomethoxy carbazole.
	[(3-Pyndyl)methyl]-4-hydroxy-5-carbamoyl carbazole.
	[(3-Pyridyl)methyl]-5-carbamoylcarbazol-4-yljoxyacetic acid. methyl ester.
55	Ethyl 5-methoxy-6-methyl-1.2,3.4-tetrahydrocarbazole-4-carboxylate.
	Ethyl 9-benzyl-5-meth xy-8-m thyl-1.2,3,4-tetrahydrocarbaz le-4-carboxylate.
	9-Benzyl-5-methoxy-8-methyl-1,2.3.4-tetrahydrocarbazole-4-carboxamide.
	9-Benzyl-5-hydroxy-8-m thyl-1.2 3,4-tetrahydrocarbazole-4-carboxamide
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[9-Benzyl-4-carbamoyl-8-m thyl-1.2.3.4-tetrahydrocarbazol-5-yl]oxyac tic acid methyl
              5-Carbamoyl-4-methoxy-I-methylcarbazole
              9-Benzyl-5-carbamoyl-4-methoxy-1-methylcarbazole:
              9-Benzyl-5-carbamoyl-4-hydroxy-1-methylcarbazole;
5
              [9-Benzyl-5-carbamoyl-l-methylcarbazol-4-yl]oxyacetic acid, methyl:
              Ethyl 9-benzyl-5-methoxy-8-fluoro-1.2,3,4-tetrahydrocarbazole-4-carboxylate:
              9-Benzyl-5-methoxy-8-fluoro-1,2.3,4-tetrahydrocarbazole-4-carboxamide,
              9-Benzyl-5-hydroxy-8-fluoro-1,2,3,4-tetrahydrocarbazole-4-carboxamide:
              [9-Benzyl-4-carbamoyl-8-fluoro-1,2,3.4-tetrahydrocarbazol-5-ylloxyacetic acid methyl ester.
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              9-Benzyl-5-carbamoyl-4-methoxy-l-fluorocarbazole
              9-Benzyl-5-carbamoyl-4-hydroxy-1-fluorocarbazole;
              [9-Benzyl-5-carbamoyl-I-fluorocarbazol-4-yl]oxyacetic acid methyl ester.
              Ethyl 9-benzyl-5-methoxy-8-chloro-1 2,3,4-tetrahydrocarbazole-4-carboxylate,
              9-Benzyl-5-methoxy-8-chloro-1.2 3.4-tetrahydrocarbazole-4-carboxamide.
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              9-Benzyl-5-hydroxy-8-chloro-1.2,3.4-tetrahydrocarbazole-4-carboxamide.
              [9-Benzyl-4-carbamoyl-8-chloro-1,2,3.4-tetrahydrocarbazol-5-yl]oxyacetic acid methyl ester.
              9-Benzyl-5-carbamoyl-4-methoxy-1-chlorocarbazole.
              5-Carbamoyl-4-hydroxy-1-chlorocarbazole.
             [5-Carbamoyl-l-chlorocarbazol-4-yl]oxyacetic acid methyl ester
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             [9-Benzyl-5-carbamoyl-1-chlorocarbazol-4-yl]oxyacetic acid methyl ester.
             [(Cyclohexyl)methyl]-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one;
             [(Cyclohexyl)methyl]-4-hydroxy-5-carbomethoxy carbazole.
             [(Cyclohexyl)methyl]-4-hydroxy-5-carbamoyl carbazole
             [(Cyclohexyl)methyl]-5-carbamoylcarbazol-4-yl[oxyacetic acid. methyl ester
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             [(Cyclopentyl)methyl]-5-carbomethoxy-1.2-dihydrocarbazol-4(3H)-one:
             [(Cyclopentyl)methyl]-4-hydroxy-5-carbamovi carbazole
             [(Cyclopentyl)methyl]-5-carbamoylcarbazol-4-yl]oxyacetic acid. methyl ester.
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or a pharmaceuticallt acceptable racemate, solvate, tautomer optical isomer, prodrug derivative or salt thereof

- 44. The use of a compound as claimed in any one of Claims 1-23 for the manufacture of a medicament for the treatment of sepsis, septic shock, adult respiratory distress syndrome, pancreatitis, trauma-induced shock, bronchial asthma, allergic rhinitis, rheumatoid arthritis, cystic fibrosis stroke, acute bronchitis, chronic bronchitis, acute bronchiolitis, chronic bronchiolitis, osteoarthritis, gout, spondylarthropathris, ankylosing spondylitis, Reiter's syndrome, psoriatic arthropathy, enterapathric spondylitis, Juvenile arthropathy or juvenile ankylosing spondylitis. Reactive arthropathy, infectious or post-infectious arthritis, gonoccocal arthritis, Tuberculous arthritis, viral arthritis. fungal arthritis, syphilitic arthritis, Lyme disease, arthritis associated with "vasculitic syndromes" polyarteritis nodosa, hypersensitivity vasculitis, Luegenec's granulomatosis, polymyalgin rheumatica, point cell arteritis, calcium crystal deposition arthropathris, pseudo gout, non-articular rheumatism, bursitis, tenosynomitis, epicondylitis (tennis elbow) carpal tunnel syndrome, repetitive use injury (typing), miscellaneous forms of arthritis, neuropathic joint disease (charco and joint), hemarthrosis (hemarthrosic). Henoch-Schonlein Purpura, hypertrophic osteoarthropathy, multicentric reticulohistiocytosis, arthritis associated with certain diseases, surcoilosis, hemochromatosis, sickle cell disease and other hemoglobinopathries, hyperlipoproteineimia, hypogammaglobulinemia, hyperparathyroidism, acromegaly, familial Mediterranean fever, Behat's Disease, systemic lupus erythrematosis, or relapsing polychondritis, and related diseases.
- 45. The use of a compound of formula (I)

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$$\mathbb{R}^{3^{1}}$$

$$\mathbb{R}^{2^{1}}$$

wherein.

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Z is cyclohexenyl or phenyl

R²⁰ is selected from groups (a) (b) and (c) where.

- (a) is-(C5-C20)alkyl -(C5-C20)alkenyl.-(C5-C20)alkynyl. carbocyclic radicals or heterocyclic radicals. or
- (b) is a member of (a) substituted with one or more independently selected non-interfering substituents, or
- (c) is the group -(L)-R⁸⁰ where. (L)-is a divalent linking group of 1 to 12 atoms selected from carbon, hydrogen, oxygen initrogen, and sulfur; wherein the combination of atoms in -(L)- are selected from the group consisting of (i) carbon and hydrogen only. (ii) one sulfur only (iii) one oxygen only, (iv) one or two nitrogen and hydrogen only. (v) carbon, hydrogen, and one sulfur only, and (vi) an carbon, hydrogen, and oxygen only and where R⁸⁰ is a group selected from (a) or (b).

 $\rm R^{21}$ is a non-interfering substituent where f is 1-3 $\rm R^{1}$ is -NHNH₂ -NH₂, or -CONH₂. $\rm R^{2'}$ is selected from the group consisting of -OH and -O(CH₂), $\rm R^{5'}$ where

 $R^{5'}$ is H. -CN -NH₂· -CONH $_2$ -CONH $^9R^{10}$ -NHSO $_2R^{15}$.-CONHSO $_2R^{15}$ where R^{15} is -(C $_1$ -C $_6$)alkyl or -CF $_3$. phenyl or phenyl substituted with -CO $_2$ H or -CO $_2$ (C $_1$ -C $_4$)alkyl and -(L $_a$)-(acidic group). wherein -(L $_a$)- is an acid linker having an acid linker length of 1 to 7 and t is 1-5.

R3' is selected from non-interfering substituent, carbocyclic radicals carbocyclic radicals substituted with non-interfering substituents heterocyclic radicals, and heterocyclic radicals substituted with non-interfering substituents

or a pharmaceutically acceptable racemate, solvate, tautomer, optical isomer, prodrug derivative or salt thereof for the manufacture of a medicament for selectively inhibiting $SPLA_2$ in a mammal

5 46. The use of a compound of formula (II)

wherein.

R¹ is -NHNH₂, or -NH₂. R² is selected from the group consisting of -OH and -O(CH₂)_mR⁵ where R⁵ is H, -CO₂H. -CONH₂, -CO₂(C₁-C₄ alkyl).

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where R^6 and R^7 are each independently -OH or -O(C_1 - C_4)alkyl;-SO₃H. -SO₃(C_1 - C_4 alkyl), tetrazolyl, -CN, -NH₂.-NHSO₂R¹⁵ -CONHSO₂R¹⁵, where R¹⁵ is -(C_1 - C_6)alkyl or-CF₃, phenyl or phenyl substituted with -CO₂H or-CO₂(C_1 - C_4)alkyl where m is 1-3.

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 R^3 is H , -O(C₁-C₄)alkyl, halo, -(C₁-C₆)alkyl, phenyl, -(C₁-C₄) alkylphenyl; phenyl substituted with -(C₁-C₆)alkyl, halo, or -CF₃, -CH₂OSi(C₁-C₆)alkyl, furyl, thiophenyl, -(C₁-C₆)hydroxyalkyl; or -(CH₂) $_n\mathsf{R}^6$ where R^6 is H , -CONH₂, -NR $^9\mathsf{R}^{10}$. -CN or phenyl where R^9 and R^{10} are independently -(C₁-C₄)alkyl or -phenyl(C₁-C₄)alkyl and n is 1 to 8;

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 R^4 is H. - (C_5-C_{14}) alkyl, - (C_3-C_{14}) cycloalkyl, pyridyl, phenyl or phenyl substituted with - (C_1-C_6) alkyl, halo, - CF_3 ,- OCF_3 ,- (C_1-C_4) alkoxy, -CN - (C_1-C_4) alkylthio, phenyl (C_1-C_4) alkyl,- (C_1-C_4) alkylphenyl, phenyl, or naphthyl,

Z is cyclohexenyl. or phenyl;

or a pharmaceutically acceptable racemate, solvate, tautomer, optical isomer, prodrug derivative or salt, thereof for the manufacture of a medicament for selectively inhibiting sPLA₂ in a mammal.

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- 47. The use as claimed in any one of Claims 45 or 46 wherein the mammal is a human.
- 48. The use of a compound of formula I as claimed in any one of Claims 1-23 for the manufacture of a medicament adapted for the administration to a mammal of said compound in an amount sufficient to inhibit sPLA₂ mediated release of fatty acid and to thereby inhibit or prevent the arachidonic acid cascade and its deleterious products, for alleviating the pathological effects of sPLA₂ related diseases.
- 49. The use of a compound as claimed in any one of Claims 1-23 for the manufacture of a medicament for alleviating the pathological effects of sPLA₂ related diseases.

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- 50. The use of a compound as claimed in any one of Claims 1-23 for the manufacture of a medicament adapted for contacting sPLA₂ with said compound, for inhibiting sPLA₂
- 51. The use of a compound of formula i

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 \mathbb{R}^{3} \mathbb{R}^{5} \mathbb{Z} \mathbb{Z} \mathbb{R}^{3} \mathbb{R}^{3} \mathbb{R}^{3} \mathbb{R}^{3} \mathbb{R}^{3} \mathbb{R}^{3} \mathbb{R}^{3}

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wherein:

Z is cyclohexenyl, or ph. nyl,

(I)

R20 is selected from groups (a). (b) and (c) where:

- (a) is-(C5-C20)alkyl.-(C5-C20)alkenyl,-(C5-C20)alkynyl, carbocyclic radicals or heterocyclic radicals or
- ib) is a member of (a) substituted with one or more independently selected non-interfering substituents, or
- (c) is the group -(L)-R⁸⁰ where. (L)-is a divalent linking group of 1 to 12 atoms selected from carbon. hydrogen, oxygen, nitrogen and sulfur wherein the combination of atoms in -(L)- are selected from the group consisting of (i) carbon and hydrogen only. (ii) one sulfur only (iii) one oxygen only. (iv) one or two nitrogen and hydrogen only, (v) carbon hydrogen and one sulfur only and (vi) an carbon, hydrogen and oxygen only and where R⁸⁰ is a group selected from (a) or (b)

 R^{21} is a non-interfering substituent where f is 1-3:

R1 is -NHNH2 -NH2, or -CONH2.

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R2' is selected from the group consisting of -OH, and -O(CH₂)₁R5' where

 R^{5} is H. -CN -NH $_2$ -CONH $_2$ -CONH $^9R^{10}$ -NHSO $_2R^{15}$ -CONHSO $_2R^{15}$ where R^{15} is -(C $_1$ -C $_6$)alkyl or -CF $_3$. phenyl or phenyl substituted with -CO $_2$ H or -CO $_2$ (C $_1$ -C $_4$)alkyl and -(L $_a$)-(acidic group) wherein -(L $_a$)- is an acid linker having an acid linker length of 1 to 7 and t is 1-5.

R3 is selected from non-interfering substituent, carbocyclic radicals carbocyclic radicals substituted with non-interfering substituents, heterocyclic radicals and heterocyclic radicals substituted with non-interfering substituents.

or a pharmaceutically acceptable racemate, solvate, tautomer optical isomer, prodrug derivative or salt, thereof, for the manufacture of a medicament for treating sepsis, septic shock, rheumatoid arthritis, osteoarthritis, stroke, apoptosis, asthma chronic bronchitis acute bronchitis, cystic fibrosis, inflammatory bowel disease or pancreatitis

52. The use of a compound of formula li

 $\begin{array}{c|c}
R^2 & COR^1 \\
\hline
 & Z & Z \\
\hline
 & R^{21} \\
\hline
 & CH_2R^4 & (II)
\end{array}$

wherein.

Z is cyclohexenyl, or phenyl, R^{21} is a non-interfering substituent. R^{1} is -NHNH₂ or -NH₂. R^{2} is selected from the group consisting of -OH and -O(CH₂)_mR⁵ where R^{5} is H -CO₂H, -CONH₂, -CO₂(C₁-C₄ alkvl):

O -P (R⁶R⁷)

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where R⁶ and R⁷ are each independently -OH or -O(C_1 -C₄)alkyl.-SO₃(H.-SO₃(C1-C4 alkyl), tetrazolyl. -CN -NH₂ -NHSO₂R¹⁵ -CONHSO₂R¹⁵, where R¹⁵ is -(C_1 -C₆)alkyl or-CF₃, phenyl or phenyl substituted with -CO₂H or-CO₂(C₁-C₄)alkyl where m is 1-3

 R^3 is H. $-O(C_1-C_4)$ alkyl, halo. $-(C_1-C_6)$ alkyl, phenyl. $-(C_1-C_4)$ alkylphenyl, phenyl substituted with $-(C_1-C_6)$ alkyl. halo. or $-CF_3$, $-CH_2OSI(C_1-C_6)$ alkyl. furyl. thiophenyl, $-(C_1-C_6)$ hydroxyalkyl: or $-(CH_2)_nR^6$ where R^8 is H. $-CONH_2$, $-NR^9R^{10}$, -CN or phenyl where R^9 and R^{10} are independently $-(C_1-C_4)$ alkyl or -phenyl(C_1-C_4)alkyl and n is 1 to 8:

 R^4 is H. -(C_5 - C_{14})alkyl, -(C_3 - C_{14})cycloalkyl, pyridyl, phenyl or phenyl substituted with -(C_1 - C_6)alkyl, halo, - CF_3 -- OCF_3 --(C_1 - C_4)alkyxy. -CN.-(C_1 - C_4)alkylthio, phenyl(C_1 - C_4)alkyl, -(C_1 - C_4) alkylphenyl, phenyl, phenoxy or naphthyl:

or a pharmaceutically acceptable racemate, solvate, tautomer optical isomer, prodrug derivative or salt, thereof, for the manufacture of a medicament for treating sepsis, septic shock, rheumatoid arithritis, osteoarthritis, stroke, apoptosis, asthma, chronic bronchitis, acute bronchitis, cystic fibrosis, inflammatory bowel disease or pancreatitis

53. The use as clarmed in any one of Claims 46-47 for alleviating the pathological effects of sepsis, septic shock, adult respiratory distress syndrome pancrealitis. trauma-induced shock, bronchial asthma, allergic rhinitis, rheumatoid arthritis, cystic fibrosis, stroke, acute bronchitis, chronic bronchitis, acute bronchiolitis, chronic bronchiolitis, osteoarthritis, gout, spondylarthropathris, ankylosing spondylitis, Reiter's syndrome, psoriatic arthropathy, enterapathric spondylitis. Juvenile arthropathy or juvenile ankylosing spondylitis, Reactive arthropathy, infectious or post-infectious arthritis, gonoccocal arthritis, Tuberculous arthritis, viral arthritis, fungal arthritis, syphilitic arthritis. Lyme disease, arthritis associated with "vasculitic syndromes", polyarteritis nodosa, hypersensitivity vasculitis, Luegenec's granulomatosis, polymyalgin rheumatica, joint cell arteritis, calcium crystal deposition arthropathris, pseudo gout, non-articular rheumatism, bursitis tenosynomitis epicondylitis (tennis elbow), carpal tunnel syndrome, repetitive use injury (typing), miscellaneous forms of arthritis neuropathic joint disease (charco and joint), hernarthrosis (hernarthrosic). Henoch-Schonlein Purpura, hypertrophic osteoarthropathy, multicentric reticulohistiocytosis, arthritis associated with certain diseases, surcoilosis, hemochromatosis, sickle cell disease and other hemoglobinopathries, hyperlipoproteinelmia, hypogammaglobulinemia, hyperparathyroidism, acromegaly, familial Mediterranean fever, Behal's Disease, systemic lupus erythrematosis, or relapsing polychondritis, and related diseases.